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Columbia University Bulletin

THE FACULTY OF MEDICINE

College of Physicians & Surgeons

1968–1969

Inquiries

Please address inquiries to:

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The Faculty of Medicine of Columbia University

College of Physicians & Surgeons

1968-1969

Grayson Kirk, Ph.D., LL.D. *President of the University*

David B. Truman, Ph.D., L.H.D. *Vice President and Provost of the University*

H. Houston Merritt, M.D. *Vice President in Charge of Medical Affairs; Dean of the Faculty of Medicine*

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Academic Calendar, 1968-1969

May	16–17	Thursday–Friday. Registration, including payment of fees, for third- and fourth-year classes.
June	1	**Saturday. Academic year begins for the fourth-year class.**
	10	**Monday. Academic year begins for the third-year class.**
Aug	1	Thursday. Last day to apply or reapply for all degrees and certificates to be conferred in October. Students who apply after this date must pay a late fee.
Sept	12–14	Thursday–Saturday. Registration, including payment of fees, for first- and second-year classes.
	16	**Monday. Classes begin for first- and second-year classes.**
Oct	1	Tuesday. Last day to file dissertations for the Med.Sc.D. degree to be awarded in October.
Nov	5	Tuesday. Election Day. Holiday.
	28–30	**Thursday–Saturday. Thanksgiving Holidays.**
Dec	2	Monday. Last day to apply or reapply for all degrees and certificates to be awarded in February. Students who apply after this date must pay a late fee.
	23	**Monday, through January 4, 1969, Saturday. Christmas Holidays.**
Jan	30	Thursday. Last day to apply for Cutting and Ellis Fellowships.
Feb	22	Saturday. Washington's Birthday. Holiday.
Mar	1	Saturday. Last day to apply or reapply for all degrees and certificates to be conferred in June. Students who apply after this date must pay a late fee.
	31	**Monday, through April 5, Saturday. Easter Holidays.**
May	1	Thursday. Last day to file dissertations for the Med.Sc.D. degree to be conferred in June.
	30	Friday. Memorial Day. Holiday.
June	3	**Tuesday. Conferring of degrees.**

The Faculty of Medicine

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H. Houston Merritt, M.D. *Vice President in Charge of Medical Affairs and Dean of the Faculty of Medicine*

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View of Bard Hall from Riverside Drive

The College of Physicians and Surgeons

The College of Physicians and Surgeons is guided by the principle that medical education is university education—the creation of an atmosphere in which ideas grow and minds are disciplined. The acquisition of knowledge and skills is important in professional education, but far more vital is a profound understanding of the science, the art, and the ethic within which both knowledge and skill are applied. As a part of Columbia University, the College builds its curriculum, selects its officers of instruction, and marshals its enormous resources of equipment and clinical experience to develop in the student this understanding of medicine. Within the curriculum for the M.D. degree is the fundamental knowledge upon which later specialization is built, and from which the natural bent is discovered toward general or special practice, or toward research, teaching, or administration. The postgraduate programs of the College provide training in the specialties, help the graduate physician to keep abreast of new knowledge, and support the research from which this knowledge develops.

HISTORY OF THE COLLEGE AND THE UNIVERSITY

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The American Revolution interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine in course. The first graduates in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May 1769 and that of Doctor of Medicine in May 1770 and May 1771, respectively. Instruction in medicine was given until interrupted by the Revolution and the occupation of New York by the British, which lasted until November 25, 1783. In 1784 instruction was resumed in the academic department, and in December of the same year the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; from that time on the diplomas of the graduates were signed by the President of Columbia College as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the college was incorporated as an integral part of the University. Since September 1917 women have been admitted to the College on the same basis as men.

Columbia-Presbyterian Medical Center

Columbia-Presbyterian Medical Center

The Medical Center was opened in the spring of 1928, seven years after the establishment of a permanent affiliation between Columbia University and the Presbyterian Hospital. It consists of the following units: the divisions of the University Faculty of Medicine (the College of Physicians and Surgeons, the Department of Nursing, the School of Public Health and Administrative Medicine); the University School of Dental and Oral Surgery; the Presbyterian Hospital and its subdivisions; the New York State Psychiatric Institute; Francis Delafield Hospital; and the Washington Heights Health and Teaching Center.

The Medical Center occupies a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. It comprises about twenty acres extending from West 165th Street to West 168th Street and from Broadway to Riverside Drive, and is readily accessible from all parts of the city. A map of the Medical Center is given on the inside back cover.

The College of Physicians and Surgeons is at 630 West 168th Street between Broadway and Fort Washington Avenue in a seventeen-story, fire-resisting, steel, brick, and concrete building, each floor of which connects with the wards and services of the Presbyterian Hospital.

THE PRESBYTERIAN HOSPITAL

Founded in 1868, the hospital now occupies a twenty-two-story building in which are the wards of the medical and surgical services, the Sloane Hospital for Women, and the Squier Urological Clinic. To provide for personal contact between doctor and patient, the hospital is divided into floor units of between 60 and 70 beds. Harkness Pavilion for private patients is connected with the main building. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the Hospital on nomination by the Trustees of the University. There are 1,537 beds.

Presbyterian Hospital has the following subdivisions:

Squier Urological Clinic occupies the tenth floor of the Presbyterian Hospital building and the tenth floor of Babies Hospital. There are 67 beds for the care of adults and 20 beds for babies and children. There are laboratories fully equipped to do diagnostic, x-ray, microbiological, pathological, fluoroscopic, and research work. The clinic has two large, specially equipped operating rooms. The urological outpatient department, situated in Vanderbilt Clinic, is fully equipped for cystoscopic, x-ray, and laboratory work.

The Institute of Ophthalmology was made possible by the generosity of Edward S. Harkness. The hospital and laboratories for the study of diseases of the eye are active in the training of physicians and nurses. The hospital contains 28 ward beds.

Harkness Pavilion, which contains 303 beds, is available for the accommodation of private patients of the attending staff.

Sloane Hospital for Women, originally at West 59th Street and Amsterdam Avenue, was presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now occupies three floors of the Presbyterian Hospital building for ward and semiprivate patients and two floors of the Harkness Pavilion for private patients. The wards of the hospital furnish 118 beds for obstetrical and gynecological patients. Patients, other than emergencies, are admitted to the hospital through Vanderbilt Clinic. The deliveries in the hospital number about 3,500 a year.

Vanderbilt Clinic, presented by the Vanderbilt family to Columbia University in 1888, is the outpatient department common to all the hospitals in the Medical Center. It is a fully equipped dispensary for the economically less privileged. The professors of the College, with their assistants, have charge of its professional services. The building is so arranged that each department has rooms for practical instruction in small sections. All modern appliances for the treatment of disease are available, so that the students can learn thoroughly the use of all methods in each of the special departments of medicine. A Group Clinic, which was organized in Vanderbilt Clinic in 1946, has proved to be a forward step in the treatment of patients as well as of great value in the teaching of fourth-year medical students.

Babies Hospital provides for general medical and surgical care of infants and children up to and including twelve years of age. One floor of the hospital is devoted to the care of private and semiprivate patients. Three floors are equipped with laboratories. Both outdoor and indoor playrooms are provided for convalescent children. The total capacity of the hospital is 198 beds. Laboratories are operated for the routine and research work of the hospital in pathology, microbiology, and chemistry. An outpatient department is maintained in Vanderbilt Clinic by the visiting and house staff of the hospital. In addition to the general medical and surgical clinics, there are special clinics for the care of premature infants and for patients suffering from heart disease, tuberculosis, epilepsy, asthma, and other disorders.

Neurological Institute, one of the first nongovernmental hospitals in this country for the treatment of nervous diseases, was founded in 1909. The original building at 149 East 67th Street was occupied continuously up to March 1929, when the Institute was moved to the Medical Center. This move has made possible the development of a broad basic program of teaching and research in neurology and in the treatment of the sick in the affiliated units of the Medical Center. The present hospital has 98 ward beds and is devoted exclusively to the treatment of diseases of the nervous system and surgical conditions of the brain and nervous system. Facilities are provided for bedside teaching in the wards for both undergraduate and graduate students.

New York Orthopaedic Hospital, established in 1868, was consolidated with the Presbyterian Hospital in 1945. It was moved to the Columbia-Presbyterian Medical Center in December 1950 and is now an integral part of the Presbyterian Hospital and the College. It has 67 ward beds. Facilities are available for the care and treatment of orthopedic conditions and fractures in children and adults. Teaching laboratories are provided in the College.

NEW YORK STATE PSYCHIATRIC INSTITUTE

A 172-bed hospital built and maintained by the state of New York, the Institute provides for the study and treatment of all types of psychiatric disorders. There are special facilities for the treatment of children presenting behavior and personality problems. Connected with the hospital is an active outpatient department providing diagnostic and treatment facilities. The hospital maintains special clinical and research laboratories and an extensive psychiatric library. The members of the hospital staff have teaching appointments in the Department of Psychiatry and take an active part in the instruction of the medical students.

FRANCIS DELAFIELD HOSPITAL

Built and maintained by the city of New York, the hospital has 259 beds for the treatment and study of cancer. A program of research and of graduate and undergraduate instruction in the malignant diseases is conducted here under the terms of an agreement with the city of New York whereby Columbia University nominates the entire professional staff. The hospital is equipped with three floors of laboratories for research and has a modern outpatient department and up-to-date facilities for all methods of study and treatment of cancer.

OTHER HOSPITALS USED FOR TEACHING

Mary Imogene Bassett Hospital, in Cooperstown, New York, is affiliated with the University for the teaching of medicine and surgery. It has 96 beds.

Goldwater Memorial Hospital, in the Department of Hospitals of New York City, was opened on Welfare Island in 1939 to fill the need for intensive research in chronic diseases and to establish adequate facilities for the care of the chronically ill. It contains 1,226 beds. The First Division of the hospital, which is under the direction of Columbia University, contains 88 research beds and is used for instruction of undergraduate and postgraduate students in the problems of chronic disease.

Harlem Hospital, in the Department of Hospitals of New York City, was founded in 1887. It has 873 beds. The facilities are used for the special teaching of residents and students.

Roosevelt Hospital, established in 1864, is a general hospital containing 558 beds. Its facilities are used in the teaching of medicine and surgery to undergraduate and postgraduate students.

St. Luke's Hospital, established in 1850, contains 718 beds, including 45 beds for children. It is affiliated with the University for the teaching of undergraduates, and all services participate in the program of graduate medical education.

MEDICAL LIBRARY

The Medical Library occupies parts of the three lower floors of the College building. It provides current literature (both books and journals) for faculty and students, and it aids in research through its own collections of current and historical works, through interlibrary loans, and through its unique bibliographic service.

The library contains approximately 285,000 volumes of books and journals, some 5,000 pamphlets, and about 2,000 lantern slides on the history of medicine. More than 4,500 periodicals are received regularly. A professional library staff is available to aid students, faculty members, and research workers in the schools and hospitals of the Medical Center.

The libraries on the Morningside campus, which contain over 3,700,000 volumes, are open to all students. They include collections on biology, chemistry, physics, psychology, sociology, and other subjects related to medicine and supplement the special collections available in the Medical Library. Books and journals may be borrowed for home use. The main collection is housed in Butler Library, while special and departmental collections are located in various other buildings on the campus.

The Medical Library is open Monday through Friday, from 8:30 a.m. to 11 p.m.; Saturday, from 9 a.m. to 5 p.m.; and Sunday, from 12 noon to 10 p.m. during the academic year. All other libraries post their hours.

BARD HALL

Bard Hall, at 50 Haven Avenue overlooking Riverside Park and the Hudson River, is the residence for men and women students of the College. Its facilities include lounges, a cafeteria and several dining rooms, and a gymnasium with facilities for swimming, basketball, squash, and other sports.

The Program of Instruction

The program is designed to give the student opportunities to acquire a working knowledge of the sciences basic to medicine and to help him master the approach to patients and their medical problems.

An attempt is made to individualize instruction and to place responsibility, as far as is practical, upon the student for his own education and the care of the patient. This is accomplished by conferences and clinical clerkships, and by teaching students in small groups at the bedside through application of the case method of instruction.

Throughout much of the course an effort is made to correlate the different phases of medical learning by means of "correlation" and "combined" clinics. The interdepartmental cooperation in these efforts is designed to demonstrate that the same essential problems are met in the various disciplines and to encourage the student to regard the study of medicine as a single united effort, rather than as a series of isolated branches of learning.

The preparation of the student is designed to enable him to continue his education in the hospital internship and residency programs, in graduate studies in the specialties, in his practice of medicine, and in other fields of medical endeavor.

FIRST AND SECOND YEARS

The first two years are occupied largely with the study of the basic sciences: anatomy, physiology, biochemistry, microbiology, pharmacology, and pathology. However, even in the first year, through the instruction in the basic sciences and in the course of psychiatry, the students become aware that the welfare and care of the patient lie at the heart of the instructional program. The first year is designed to prepare the student—through an introduction to genetics and biostatistics, through instruction in the development and growth of the mind and body, and through an understanding of biochemistry—for the examination of the structure and function of the human body.

THIRD AND FOURTH YEARS

The third and fourth years are largely clinical. Under close supervision, the student is helped to develop attitudes, skills, knowledge, and habits applicable to a wide variety of clinical disorders. The primary educational aims are to help the student to elicit an accurate and comprehensive history, to carry out complete and thorough physical examinations, to develop an understanding of the mechanisms involved and of the various ways in which common patterns of disease affect the human being, to learn the principles necessary to reach valid clinical and diagnostic appraisals and effective therapeutic plans, and to acquire consideration and perceptiveness in the handling of patients. To this end, the clerkships in medicine, surgery, pediatrics, neurology, obstetrics, psychiatry, anesthesiology, and ortho-

pedics are particularly valuable. The fourth year, in which the student is given increased responsibilities, is concerned especially with the natural history of disease, further understanding of the impact of disease on the patient, and the management of patients. A variety of special opportunities, dealing with such problems as acute emergency care, chronic illness, and community hospital practices, are provided through programs available at affiliated institutions.

RESEARCH OPPORTUNITIES

The importance of clinical and laboratory investigation by the student is stressed. Students are encouraged to engage in some definite research project during their undergraduate years. During their third and fourth years they may arrange programs to enable them to do full-time research for periods of three months. After completion of the first year, or preferably between the second and third years, a student may make arrangements to spend a full year on his original investigation rather than proceed with the next regularly assigned academic year. Stipends are available for research fellowships of this kind. At the completion of his research he enters the academic year for which he is qualified and continues in course toward the M.D. degree.

It is the policy of the faculty to keep the program of instruction flexible so that the interests of the individual student may be served to the best advantage.

► COURSES OF INSTRUCTION AND RESEARCH

For purposes of instruction the first and second academic years are divided into trimesters; the third into quarters; and the fourth into six periods. The academic year for the first- and second-year students is approximately nine months long; the third and fourth years are twelve months long.

All students who are not regularly matriculated for the degree of Doctor of Medicine must obtain the permission of the instructor in charge before registering for any course. Only a small number of doctoral candidates are accepted because of limitations in space and facilities.

The College reserves the right to make changes in the program of studies and courses of instruction at any time.

GRADES AND PROMOTION

The following grade equivalents are used: A, excellent; B, good; C, fair; F, work unsatisfactory.

A student may be advanced to the next academic year of the medical course or readmitted to a year only upon recommendation of the faculty under which he studied during the previous year. Students are classified under the following headings: (1) recommended for advancement; (2) recommended for readmission to the same class; (3) recommended for neither advancement nor readmission. The Faculty of Medicine reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to study in the College.

KEY TO COURSE NUMBERS

Medical Center courses: The suffixes *F, S, and T* are attached to first- and second-year courses; they indicate the part of the academic year during which the courses are given: *F* = 1st period or trimester; *S* = 2nd period or trimester; *T* = 3rd period or trimester.

A three-digit number with no suffix indicates a third- or fourth-year course covering a period of six months or less; two hyphenated three-digit numbers indicate a third- or fourth-year course extending or being repeated to multiple-class groups for a period of more than six months.

Graduate Faculties courses (electives only): These are indicated by the prefix *G*. The suffix *x* indicates an autumn-term course; the suffix *y*, a spring-term course; two hyphenated numbers, a course that runs through the academic year (nine months).

Summer Session courses (electives only): These are indicated by the prefix *S*. The suffix *G* indicates a course given in the second six-week graduate-undergraduate session.

► FIRST YEAR

Anatomy 101F. Microscopic anatomy

Professors Brandt, Cooper, Dempsey, Luse, Masurovsky, Shen, Smelser, and Trotter, and assistants.

Lectures, conferences, and laboratory, dealing with light and electron microscope studies of structure in relation to function. Includes histogenesis.

Anatomy 102ST. Systematic human anatomy

Professors Agate, Bedford, Bunge, Elftman, Ely, Moss, and Rogers, and assistants.

Lectures, conferences, and laboratory on the functional anatomy of the human body and its development.

Anatomy 103FST. Embryology

Professors Dempsey, Ely, Luse, Moss, Rogers, and Shen.

Lectures and demonstrations on development and adaptations at birth. Correlated and given in conjunction with microscopic and systematic human anatomy.

Anatomy 106T. The structure and function of the nervous system

Professors Carpenter and Noback (*Anatomy*), Rittenberg (*Biochemistry*), Masland (*Neurology*), Nastuk and Taggart (*Physiology*), and Kolb (*Psychiatry*).

An interdepartmental course: lectures, demonstrations, and laboratory.

Biochemistry 101F. Introductory biochemistry

The departmental staff. Four hours of lecture, ten hours of laboratory, and one hour of conference a week for fourteen weeks.

Medicine 114T. Correlation clinics

Professor Taggart and associates.

A series of clinics illustrating the application of basic science to the understanding of disease mechanisms.

Obstetrics and Gynecology 101F. Genetics

Professor Miller and an interdepartmental staff.

Physiology 101FST. Human physiology

Members of the departmental staff. Three hours of lecture, one hour of conference, and six hours of laboratory a week.

Psychiatry 101FST. Introduction to human behavior

Professors Dohrenwend and Glusman, and Drs. Michels, Sours, and Wilkie. Thirty one-hour lectures and small group seminars.

The genetic, family, and cultural processes underlying healthy behavior; the nature of anxiety; the psychological methods of adaptation to anxiety; and the processes of communication, thought, and learning. The process of development from infancy through the various periods of maturity is emphasized throughout.

Public Health 103F. Statistics

Professor Fertig. Three hours a week for five weeks.

Lectures and demonstrations on medical statistics as related to medical research.

► SECOND YEAR

Medicine 101T. Elementary physical diagnosis

Professor Aranow and associates. Eight hours a week for ten weeks.

Medicine 102T. Elementary clinical pathology

Professors Marks, Rifkind, and Ultmann, and associates. Eight hours a week for eleven weeks.

Emphasis is placed on morphology, genetics, biochemistry, and physiology in considering problems in clinical medicine; instruction in certain specific laboratory techniques for examination of blood, urine, and other clinical material.

Medicine 104T. Introductory medicine

Professor Bradley and associates. One hour a week for ten weeks.

Microbiology 101F. General medical microbiology and immunology

Members of the departmental staff. Thirteen hours a week of laboratory, conferences, demonstrations, and special problems.

Microbiology 105F. The principles of microbiology, immunology, epidemiology, and the specific diagnosis and therapy of infectious diseases

Members of the departmental staff. Six hours a week of lectures and demonstrations.

Neurology 101T. Introduction to clinical neurology

Professors Masland and Vicale. Two hours of lecture and demonstration a week for ten weeks.

Neurological examination; anatomical, physiological, and pathological correlations.

Obstetrics and Gynecology 102T. Introduction to obstetrics and gynecology

Members of the departmental staff. Ten hours of lecture.

General clinical lectures. Presentation of basic principles in the physiology of human reproduction in relation to clinical manifestations of ovulation, fertilization, and pregnancy.

Pathology 101FS. General and special pathology

Professor King and the departmental staff.

Study of the important disease processes by means of demonstrations, autopsies, conferences, and case study, and by the use of fresh specimens and a complete series of histological specimens.

Pathology 102S. Neuropathology

Professors Cowen, Duffy, and Wolf, and the departmental staff. Three hours of lecture and laboratory a week for ten weeks.

Pharmacology 101FS. General and special pharmacology

The departmental staff. One hour of lecture or conference a week, first trimester; four hours of lecture or conference and six hours of laboratory a week, second trimester.

Psychiatry 102T. Psychopathology

Professors Mesnikoff, Carr, and Kornfeld. Twenty one-hour lectures and demonstrations.

Audio-visual aids are used.

Public Health 101F. An introduction to preventive medicine and public health

Professor Susser and staff. One hour a week for ten weeks.

Public Health 102T. Parasitic diseases: the protozoa, helminths, and arthropods of medical significance

Professor Brown and staff. Five hours of lecture, laboratory, and demonstration.

Surgery 101T. Introduction to surgery

Professors Humphreys and Lattes, and the departmental staff. One hour a week for eleven weeks.

Surgery 102T. Principles of surgery

Professors Lattes and Wiedel, and the departmental staff. Six hours a week for eleven weeks.

► THIRD YEAR

Anesthesiology 201–202. Practical anesthesiology and seminars

Professor Papper and the departmental staff. Two and three-quarter weeks.

Dermatology 203–204. Dermatology and syphilology

Professors Sanders and Nelson and the departmental staff. Ten lectures, one symposium (on common dermatoses), and fourteen two-hour demonstration sessions. At Vanderilt Clinic.

Medicine 201–202. Ward clinical clerkship in medicine

Professor Tapley (*in charge*). Eleven weeks.

Medicine 203–204. Medical lectures

Professor Tapley and associates. One hour a week for twenty-eight weeks.

A series of lectures or clinics devoted to important problems of internal medicine. Approximately half of these lectures are assigned to outstanding students of the fourth-year class for presentation to third-year students, with a member of the faculty orienting discussion.

Medicine 205–206. Combined clinics

Professors Turino, Goodman, Canfield, and associates. One and one-half hours a week for thirty weeks.

Continued through the fourth year.

Medicine 211. Electrocardiography

Professor Ferrer. One hour a week for eight weeks.

Neurology 202. Clinical lectures and demonstrations (neurosurgery)

Professor Pool. One hour a week for eight weeks.

Neurology 207–208. Ward clinical clerkship in neurology

Members of the staff of Neurological Institute. Five and one-half weeks. At Neurological Institute.

Obstetrics and Gynecology 201–202. Theory and practice of obstetrics and gynecology

The departmental staff. Fourteen three-hour periods of clinical demonstration and nineteen hours of lectures.

Topics covered include: anatomy and physiology of the pelvic organs; pregnancy and the mechanism of normal labor; the complicating diseases associated with pregnancy; etiology, pathology, symptomatology, and diagnosis of gynecological conditions.

Ophthalmology 201–202. Practical instruction in ophthalmology

The departmental staff. Fourteen three-hour periods. At Vanderbilt Clinic and the Institute of Ophthalmology.

Orthopedic Surgery 201–202. Lectures on orthopedic surgery

Professor Stinchfield and the departmental staff. Nine lectures.

Orthopedic Surgery 203–204. Practical instruction in orthopedic surgery, including fractures and dislocations

Professors Stinchfield and McLaughlin, and the departmental staff. Two and three-quarter weeks.

Otolaryngology 201–202. Practical instruction in the diseases of the ear, nose, and throat

Professors Altmann, Baker, Basek, Hui, Tonndorf, and Waltner, and the departmental staff. Fourteen three-hour sessions. At Vanderbilt Clinic.

Otolaryngology 203. Lectures

Professor Baker and the departmental staff. Four one-hour sessions.

Pediatrics 201–202. Introduction to pediatrics: clinical clerkships

Professor Curnen and the departmental staff. Five and one-half weeks. At Babies Hospital.

Designed to orient the student in the study of diseases of infants and children, of normal growth and development, and of maintenance of health.

Psychiatry 203–204. Clinical psychiatry

Professors Dunton, Horwitz, Kesselbrenner, Langford, MacKinnon, and Polatin, and clinical faculty. Twelve hours of clinical conferences and twelve hours a week of clinical clerkship for eleven weeks. At the New York State Psychiatric Institute, Presbyterian Hospital, Manhattan State Hospital, and Letchwood Village.

Public Health 203–204. Preventive and administrative medicine

The departmental staff. Eleven four-hour conferences, demonstrations, and field work periods; and sixteen one-hour lectures.

Public Health 205. Forensic medicine and medical jurisprudence

Dr. Weinberg and Mr. Werne. One hour of lecture a week for seven weeks.

Radiology 201–202. Diagnostic radiology

Professor Seaman and staff. One hour a week for twelve weeks.

Radiology 206. Biologic effects of ionizing radiation

Professors Chang and Jacox. Two one-hour lectures.

Surgery 201–202. Surgery lectures

Professor Humphreys and staff. Eighteen hours.

Surgery 203. Lectures and demonstrations in surgical pathology

Professor Lattes and staff. Fourteen sessions of one and one-half hours.

***Surgery 204–205. Surgery, clerkship, ward, and outpatient clinics**

Professor Humphreys and staff. Five and one-half weeks.

Seminars and preceptorships in clinics and wards.

***Surgery 211–212. Practical instruction in surgical pathology**

Professor Lane. Five and one-half weeks.

► FOURTH YEAR

Dermatology 205–206. Dermatology and syphilology

Professor Nelson, Drs. Eisert and Fields, and the departmental staff. Seven hours a week for one month.

Medicine 205–206. Combined clinics

The departmental staff. One and one-half hours a week for thirty weeks.

Continued from the third year.

Medicine 207–208. Outpatient clinical clerkships (Group Clinic)

Professor Lamb (*in charge*). Two months.

Medicine 209–210. Medical therapeutics and applied pharmacology

Professors Southworth (*in charge*) and F. G. Hofmann (*Pharmacology*). One lecture a week for sixteen weeks.

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* *Surgery 204–205* and *211–212* are given together in the same five-and-one-half-week period.

Given with *Pharmacology 202*. May be taken in the third year as an elective.
Practical management, including home care, of major medical problems; review of the pertinent pharmacology.

Medicine 221–222. Clinical clerkships on the wards at Harlem Hospital or at Goldwater Memorial Hospital

Professor Ragan and associates (Harlem); Professor Curran and associates (Goldwater Memorial). Two months.

Medicine 223–224. Affiliated hospital clerkships in medicine at Mary Imogene Bassett Hospital, Francis Delafield Hospital, Roosevelt Hospital, or St. Luke's Hospital

Members of the departmental staff. One month.

Medicine 225–226. Medical conferences at Harlem Hospital

Professor Ragan (*in charge*).

Obstetrics and Gynecology 203–204. Practical work in obstetrics and gynecology

Members of the departmental staff.

The practical work in the obstetrics and gynecology class is given in six sections, each section receiving eight and one-half weeks of instruction. During this period each section is divided into four groups:

1. *Obstetrics at Sloane Hospital for Women—Labor and Delivery Floor:* Day and night duty; lodging furnished by the hospital. Seminars, ward rounds, and assignment to patients in labor for actual delivery under the direction of the attending staff.
2. *Obstetrics at Sloane Hospital for Women, at Women's Hospital (St. Luke's Medical Center), or at Mount Sinai—Obstetrical Wards:* Seminars, ward rounds, and clinical clerkship.
3. *Obstetrics and Gynecology at Sloane Section of Vanderbilt Clinic:* Prenatal and postnatal clinics. Gynecology clinics.
4. *Gynecological Service at Sloane Hospital for Women, at Women's Hospital (St. Luke's Medical Center), or at Mount Sinai—Gynecological Wards:* Seminars and ward rounds. Students act as clinical clerks in gynecology wards and follow the surgical care of patients.

Orthopedic Surgery 205–206. Practical instruction in orthopedic surgery, including fractures and dislocations

Professors Stinchfield and McLaughlin and the departmental staff. Thirty hours.

Pediatrics 203–204. Outpatient clinical clerkships in pediatrics

Professor Curnen and the departmental staff. One month. At Vanderbilt Clinic.

Pharmacology 202. Medical therapeutics and applied pharmacology

Professors F. G. Hofmann and Southworth (*Medicine*). One conference a week for sixteen weeks.

Given with *Medicine 209–210*. May be taken in the third year as an elective.

Psychiatry 205. Clinical psychiatry: principles and practice of psychotherapy for medicine

Drs. Papanek and Mosher and clinical staff.

Demonstration of short-term psychotherapy by a member of the faculty, using closed-circuit television. The application of psychiatric principles to the practice of medicine as encountered in patients from Medical Group Clinic. Consultations on individual patients. Three hours weekly, for one month, given twelve times a year.

Radiology 203–204. X-ray interpretation

Professors Ellis, Kanter, Potter, and Seaman. Four hours of conferences a week for four weeks.

Radiology 205. X-ray interpretation

Professor Seaman and staff. Three hours of conferences a week for two months.

Surgery 213–214. Clinical clerkship in surgery

Professor Humphreys and the departmental staff. Five days a week for two months. At Mary Imogene Bassett, Delafield, Harlem, Presbyterian, Roosevelt, or St. Luke's Hospitals.

Urology 201–202. Clinical urology

Professor Lattimer and the departmental staff.

Discussions, demonstrations, and surgical motion pictures illustrating pathogenesis, diagnosis, and treatment of urological disorders. Cystoscopic diagnosis, roentgen diagnosis, and pathologic demonstrations with closed-circuit television. Patients are studied on wards and in clinic. Term paper.

► ELECTIVES

Elective courses are arranged so that students may continue, supplement, or vary the work done in the prescribed courses; as a rule, they may be taken only in the third and fourth years. Students may arrange for electives at the beginning of any period and will be held responsible for attendance and the passing of examinations. Elective courses may not, ordinarily, be credited toward the degree. However, specially qualified students in the fourth-year class may, upon nomination by the head of a department and with the permission of the Committee on Instruction, substitute elective courses or research in that department for certain prescribed courses.

Additional courses in the basic medical sciences are offered under the Faculty of Pure Science; see the bulletin of the Graduate Faculties.

For information about graduate courses in dermatology, neurology, otolaryngology, and surgery, consult the Office of the Dean.

ANATOMY: SUMMER SESSION 1968

Anatomy S4001G. Introduction to human anatomy

Professor Ely and assistant. MTuWThF 2–5.

Anatomy S4007G. Microscopic anatomy

Professor Noback. MTuWThF 9–12.

An introductory course in general histology, dealing with the structure and function of the tissues and organs of the body, based largely on the study of human material.

ANESTHESIOLOGY

Anesthesiology 201. Practical anesthesiology in Presbyterian Hospital

Professor Papper and the departmental staff. Four to twelve weeks. Third year.

Supervised instruction and experience in the theory and practice of anesthesiology.

Anesthesiology 212. Research in anesthesiology

Professors Papper and Nahas, and the departmental staff. Hours to be arranged. Third and fourth years.

Limited to two students.

BIOCHEMISTRY

Biochemistry G4027x–G4028y. Introductory biochemistry

The departmental staff. *G4027:* TuTh 12 and F 1. *G4028:* MWF 9:20.

Required of all Ph.D. candidates in the department.
Prerequisite: organic and physical chemistry, and the permission of the department.
The chemistry and metabolism of the cellular constituents. Wherever possible this knowledge is used to examine control mechanisms, biochemical genetics, and comparative biochemistry.

Biochemistry G6011x–G6012y. Special methods of biochemistry

The departmental staff. Hours to be arranged. Third and fourth years.

Eligibility to be determined on consultation.
Study and discussion intended to prepare the student for research or practical application.

Biochemistry G6028. Enzymes. The staff. Not given in 1968–1969.

Biochemistry G6030. Chemistry and biochemistry of the carbohydrates. Not given in 1968–1969.

Biochemistry G6032. The biochemistry of nucleic acids. Not given in 1968–1969.

Biochemistry G6034. The proteins. Not given in 1968–1969.

Biochemistry G6036x. Selected topics in physical biochemistry

Professor Gold and the staff. TuTh 10 and F 2.

Prerequisite: physical chemistry, introductory biochemistry, and the instructor's permission.
Kinetics and mechanism of enzyme-catalyzed reactions.

Biochemistry G8040y or G8440y. Introduction to x-ray crystallography

Professor Low. *G8040.* Lect: TuTh 1. Lab: 5 hours to be arranged.
G8440 (lectures only). TuTh 1.

Prerequisite: the instructor's permission.
Crystal symmetry; production and properties of x-rays; optical principles of x-ray diffraction; crystal-structure analysis; discussion of crystal-structure analyses of chemical and biochemical interest.

Biochemistry G9001x–G9002y. Seminar on selected topics in biochemistry

The departmental staff. TuW 4–5:30. Fourth year.

Ph.D. candidates and all other investigators in the department meet weekly to discuss results of recent researches in biochemistry.

Biochemistry G9005x–G9006y. Seminar on biochemistry of the hormones

Professors S. Lieberman and F. G. Hofmann (*Pharmacology*). Tu 5:30–7.

Prerequisite: *Biochemistry G4027–G4028* or the equivalent.
Review and analysis of current literature in selected fields of endocrine biochemistry.

DERMATOLOGY

Dermatology 101T. Medical mycology

Professor Silva and Dr. Weitzman. Eight hours a week for twelve weeks. Second year.

Given with *Microbiology 118T.*
Lectures and laboratory.

Dermatology 207–208. Outpatient clinic clerkships

Members of the departmental staff. Five afternoons a week for one month. Third and fourth years.

Dermatology 219–220. Histopathology of the skin

Professor Shapiro. Hours to be arranged. Fourth year.

MEDICINE

Medicine 209–210. Medical therapeutics and applied pharmacology

Professors Southworth (in charge) and B. F. Hoffman. Third and fourth years.

A two-year sequence of sixteen lectures.

Medicine 227–228. Special clinics at Presbyterian Hospital

Third and fourth years.

Morning clinics:

A. *Diabetes.* Professor Pines. W; Floor 2. Limited to six students.

B. *Thyroid.* Professors Werner and Aranow. F; Floor 10. Limited to six students.

C. *Nephritis and hypertension.* Professor Laragh. Tu; Floor 2. Limited to four students.

Afternoon clinics:

D. *Allergy.* Professor Sherman. MTuThF, Floor 10. Limited to two students.

E. *Cardiac.* Professor M. I. Ferrer. F, Floor 10. Limited to four students.

F. *Arthritis.* Professor Christian. WF, Floor 10. Limited to four students.

G. *Combined endocrine.* Professor Werner and associates. Tu, Floor 3. Limited to six students.

H. *Gastrointestinal.* Professor Flood. MWF, Floor 3. Limited to two students.

Prerequisite: the third-year clinical clerkship in medicine.

Applications for work in these clinics should be made to the secretary of the department one week before the beginning of the quarter. Assignments are announced three days before the beginning of the quarter.

Medicine 229–230. Differential diagnosis

Professor Wertheim. Fourth year.

At the beginning of class, abstracts of histories are distributed, and the diagnosis, not known by students or instructor, is handed to the instructor. Discussion of the diagnosis and presentation of pathological material follow.

Medicine 231–232. Research

Professor Bradley (in charge). Third and fourth years.

Open to qualified workers. Research in the clinical laboratories of the department.

Medicine 233. History of medicine

Professors Richards and Rose (*Public Health Education*). Eight evening lecture seminars. Third and fourth years.

Admission limited; open only by application.

Selected topics.

Medicine 237. Seminars in biomedical research

Professor Goodman and associates. One hour a week for sixteen weeks. Third and fourth years.

Research programs of the Department of Medicine are discussed in detail and are subjected to critical evaluation and to a discussion of their place within the broad framework of biology and medicine.

Medicine 239. Clinical physiology of respiration

Professor Turino and associates. One hour a week for fifteen weeks. Fourth year.

Limited to five students. Admission only with departmental approval.

MICROBIOLOGY

Microbiology G6061y. Medical mycology

Professor Silva and Dr. Weitzman. Eight hours a week for twelve weeks. Second year.

Given with *Dermatology 101T*.
Lectures and laboratory.

Microbiology G9501x–G9502y. Research in problems of microbiology, immunology, and immunochemistry

The departmental staff. Hours to be arranged. Third and fourth years.

Laboratory.

NEUROLOGY

Neurology 241–242. Ward clinical clerkships in neurology

Professor Masland and the departmental staff. Four weeks or more. Fourth year.

ORTHOPEDIC SURGERY

Orthopedic Surgery 207–208. Clinical instruction on wards, in outpatient department, and in operating room

The departmental staff. Third and fourth years.

Orthopedic Surgery 208–209. Research in orthopedic surgery laboratory

Professor Bassett and staff. Hours to be arranged. Third and fourth years.

Topics include problems in metabolic diseases of bone and cartilage, fracture healing, bone transplantation and growth, and piezoelectricity.

OTOLARYNGOLOGY

Otolaryngology 225–226. Research in otolaryngology

Professors Altmann and Tonndorf. Hours to be arranged. Third and fourth years.

Otolaryngology 227–228. Ward clinical clerkship

Professor Baker, Dr. Savetsky, and the departmental staff. Fourth year.

Prerequisite: a clerkship in medicine and surgery.

PATHOLOGY

Pathology G9051x–G9052y. Research in pathology

Professor King and members of the departmental staff. Hours to be arranged. Third and fourth years.

Surgery 226. Surgical pathology

Professor Lattes and staff. Given throughout the year. Third and fourth years.

For course description, see page 28.

PHARMACOLOGY

Pharmacology 229–230. Research in pharmacology

The departmental staff. Hours to be arranged. Third and fourth years.

Eligibility to be determined on consultation.

Pharmacology–Physiology G9501x–G9502y. Seminar

The departmental staff. Third and fourth years.

Graduate students meet for one hour weekly to discuss recent advances in these disciplines.

PHYSIOLOGY

Physiology G8001x–G8002y. Advanced physiology

Professor Taggart and the departmental staff. TuTh 3–5. Lab: by arrangement. Third and fourth years.

History of physiology and modern experimental methods. Practice in spectrophotometric and gasometric methods, neurophysiological procedures, surgical techniques, methods of measuring cardiac output, blood volume, and the like.

Physiology G9051x–G9052y. Research in physiology

Members of the departmental staff. Hours to be arranged. Third and fourth years.

Eligibility to be determined on consultation.

PREVENTIVE AND ADMINISTRATIVE MEDICINE

Students interested in electives in medical care, public health practice, biostatistics, epidemiology, nutrition, occupational medicine, parasitology, and the like should consult the bulletin of the School of Public Health and Administrative Medicine and confer with the appropriate professor.

An elective in medicine in the tropics is available to fourth-year students; they serve in hospitals in Bolivia, Liberia, Nigeria, Surinam, and Taiwan.

PSYCHIATRY

Psychiatry 219–220. Psychological methods

Professors Carr and Thetford. Two mornings a week. Third and fourth years.

Theories and exercises in clinical psychology. Limited to two students.

Psychiatry 221–222. Elective

Professor P. Polatin and the departmental staff. Hours to be arranged. At the Psychiatric Institute and Presbyterian Hospital. Third year.

Psychiatry 223–224. Clinical elective

Professors Cotton and Shands. Hours to be arranged. At St. Luke's or Roosevelt Hospital. Third year.

Psychiatry 225–226. Research elective

Professor Glusman and members of the research faculty. Hours to be arranged by Professor Glusman. All four years.

Research stipends are available for elective periods during the year for special work with various divisions of the department.

Psychiatry 227–228. Clinical clerkship

Dr. Gurian. Mary Imogene Bassett Hospital. One to three months. Third and fourth years.

Prerequisite: *Psychiatry 203–204.*

Experience in the practice of psychiatry in a small general hospital, including the inpatient, outpatient, and emergency departments.

RADIOLOGY

Radiology 213. Clinical radiology

Professors Baker, Ellis, Schlaeger, Schwarz, Seaman, and Wood. Four- to six-week periods throughout the year. Third year.

A clinical clerkship in roentgen diagnosis and radiotherapy, including roentgen anatomy and technique, methods of film interpretation and fluoroscopy, and the diagnosis, treatment, and follow-up care of the patient with cancer.

REHABILITATION MEDICINE

Rehabilitation Medicine 201. Clinical clerkship

Professor Darling and the departmental staff. Third year.

Open to a limited number of students for special work during one quarter of the year. Stipends available.

SURGERY

Surgery 221–222. Research in surgical laboratory

Professor Habif and assistants. Given throughout the year. Third and fourth years.

Specific problems are assigned; they may be distinct entities or phases of some of the larger problems being studied in the laboratory.

Surgery 225. Tissue culture as a research method

Professor Murray and assistants. One hour lecture and three hours laboratory. November 1 to February 1. Third and fourth years.

Conferences and individual instruction dealing with the structure and function of normal neoplastic cells, technique of tissue culture, and interpretation of the results.

Surgery 226. Surgical pathology

Professor Lattes and staff. Given throughout the year. Third and fourth years.

For students interested in refining their training in diagnostic surgical pathology. Medical research problems are discussed individually.

UROLOGY

Urology 219–220. Research elective

Professors Tannenbaum and Zinnser and assistants. Third and fourth years.

Problems in uropathology, cancer, stone, transplantation, or other fields, or participation in investigations already in progress in the department.

Urology 221–222. Clinical clerkship

Members of the departmental staff. One month. Fourth year.

Clinical care of urology ward patients in Presbyterian Hospital, assistance at surgery and work in outpatient department under supervision, and diagnosis and treatment of urological disorders. Basic urological techniques.

► SUMMARY OF STUDIES (IN HOURS)

FIRST YEAR	HOURS		HOURS
Anatomy 101F	160	Anatomy 103FST	28
Anatomy 102ST	265	Anatomy 106T	150

FIRST YEAR (continued)	HOURS
Biochemistry 101F	182
Medicine 114T	6
Obstetrics and Gynecology 101F	24
Physiology 101FST	178
Psychiatry 101FST	30
Public Health 103F	15
TOTAL	1,038

SECOND YEAR	HOURS
Medicine 101T	96
Medicine 102T	88
Medicine 104T	10
Microbiology 101F	130
Microbiology 105F	60
Neurology 101T	20
Obstetrics and Gynecology 102T	10
Pathology 101FS	285
Pathology 102S	36
Pharmacology 101FS	132
Psychiatry 102T	20
Public Health 101F	10
Public Health 102T	55
Surgery 101T	11
Surgery 102T	66
TOTAL	1,029

THIRD YEAR	HOURS
Anesthesiology 201–202	82
Dermatology 203–204	44
Medicine 201–202, 203–204, 205–206, 211	440
Neurology 202, 207–208	173
Obstetrics–Gynecology 201–202	60
Ophthalmology 201–202	42
Orthopedic Surgery 201–202, 203–204	91
Otolaryngology 201–202, 203	46
Pediatrics 201–202	165
Psychiatry 203–204	144
Public Health 203–204, 205	67
Radiology 201–202, 206	14
Surgery 201–202, 203, 204–205, 211–212	235
TOTAL	1,603

FOURTH YEAR	HOURS
Dermatology 205–206	28
Medicine 205–206, 207–208, 209–210, 221–222, 223–224, 225–226	660
Obstetrics and Gynecology 203–204	280
Orthopedic Surgery 205–206	24
Pediatrics 203–204	140
Pharmacology 202	16
Psychiatry 205	12
Radiology 203–204, 205	32
Surgery 213–214	280
Urology 201–202	36
TOTAL	1,508

► SPECIAL PROGRAMS

PROGRAMS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

A student may plan a combined program leading to the award of both the M.D. and the Ph.D. degrees. He may begin such a program either in the College

or under the Faculty of Pure Science, but he may not be registered in the two faculties concurrently. It is usually to his advantage to complete the requirements for the M.D. degree first, since some of the required medical courses and elective research opportunities may be credited toward the Ph.D. degree. A student interested in a combined program should consult the chairman of the basic science department in which he plans to major and the Associate Dean of the Faculty of Medicine.

A limited number of students may be accepted in the basic science departments of the College—Anatomy, Biochemistry, Microbiology, Pathology, Pharmacology, and Physiology—and in the Subcommittee on Biophysics (see below). Because of limited facilities only candidates for the Ph.D. degree are accepted. Work toward the degree in the basic science departments is under the jurisdiction of the Faculty of Pure Science of the University and must receive approval by the departmental chairman concerned. Admission and degree requirements and courses of instruction are given in the bulletin of the Graduate Faculties.

RESEARCH IN RESIDENCE

A graduate student who wishes to engage in special clinical or investigative work under the direction of a department may, with the approval of the Dean, register for research in residence (see the schedule of fees).

CURRICULA IN PHYSICAL THERAPY AND OCCUPATIONAL THERAPY

Educational programs leading to the Bachelor of Science degree in occupational therapy or physical therapy are offered by the Department of Rehabilitation Medicine to students with a background of two years of college; the programs are approximately two years in length. Students who have already earned a baccalaureate degree may apply for admission to a one-year program leading to a professional certificate in physical therapy or to a two-year program leading to a Master of Science degree in occupational therapy. Details are given in the University bulletin *Courses in Physical Therapy and Occupational Therapy*.

PROGRAM OF THE PSYCHOANALYTIC CLINIC

A course of training in the theory and practice of psychoanalytic medicine is offered through the Psychoanalytic Clinic for Training and Research of the Department of Psychiatry. The program, a minimum of four years in length, leads to the award of a Certificate in Psychoanalysis. For details, see the bulletin of the Psychoanalytic Clinic.

Physicians participating in this training program who wish to be considered for acceptance as candidates for the degree of Doctor of Medical Science may request further information from the Office of the Dean of the Faculty of Medicine.

PROGRAM IN RADIOLOGICAL PHYSICS

A student who holds a bachelor's degree or the equivalent with a major or a strong minor in physics may be eligible for admission to the full-time, integrated

course in radiological physics leading to the award of the Master of Science degree. The course, which is given throughout the academic year, consists of lectures, seminars, conferences, and laboratory work designed to prepare the student to carry out all the functions of a physicist in a hospital department of radiology or to engage in applied or theoretical research. The class is limited to six students. Further information may be obtained from the office of the Department of Radiology.

PROGRAM IN BIOPHYSICS

The program of study in biophysics, which leads to the award of the degree of Doctor of Philosophy, is under the jurisdiction of the Joint Committee on Graduate Instruction through its Subcommittee on Biophysics. Information about admission and degree requirements and courses of instruction is given in the bulletin of the Graduate Faculties.

The Postgraduate Program

Opportunities for medical training beyond the M.D. degree are offered at Columbia University through three major programs: (1) the training of specialists by means of hospital residencies; (2) the Doctor of Medical Science program, for physicians with particular interest and competence in research in the basic sciences; and (3) special courses in general medicine and in the specialties, for practicing physicians and physicians in training who wish to renew and continue their educational experiences in the various fields of medicine. Further information about these programs may be obtained from the Office of the Dean of the Faculty of Medicine.

TRAINING OF SPECIALISTS

The program offers training opportunities through fellowships at the College of Physicians and Surgeons and residencies at affiliated hospitals for holders of the M.D. degree who have completed hospital internships. Proper training for specialization includes three major elements: First, it provides a comprehensive clinical experience as a resident in a hospital that is equipped and staffed to provide graded responsibilities under the supervision of experts in the selected specialty. Second, it disciplines the resident in scientific attitudes toward health and disease and enriches his clinical experience through advanced training in those medical sciences that are largely concerned with his specialty. Finally, it gives the student the opportunity, either as a resident or as a fellow, to do basic or clinical research. This in turn may stimulate the type of creative productivity that may earn him a recommendation that he be admitted to a program leading to the award of the Doctor of Medical Science degree.

PROGRAM FOR THE DOCTOR OF MEDICAL SCIENCE DEGREE

The University confers the Med.Sc.D. degree upon a few physicians who have completed a research project in one of the basic science fields. Only staff members of the Columbia-Presbyterian Medical Center are eligible for this degree. A minimum of one year of full-time work in the basic science field is required. Additional requirements include completion of a significant and original research project, the passing of a comprehensive and an oral examination, and submission of a dissertation.

COURSES FOR PRACTICING PHYSICIANS AND SPECIALISTS

A variety of short courses have been organized at hospitals and clinics affiliated with the University; they are available at the Columbia-Presbyterian Medical Cen-

ter, St. Luke's Hospital, Brookdale Hospital Center, and Harlem Hospital. No University credit or certificates are granted for these courses.

Courses for the general practitioner furnish opportunities for him to keep abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention; and to learn the indications, limitations, and value of those technical procedures which require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, demonstrations, and discussion.

For those already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is limited to those who have the preparation necessary to enable them to benefit by the advanced instruction.

Admission, Registration and Expenses

Entering classes are enrolled in the College once each year in September. The minimum requirement for admission is attendance for three full academic years at an approved college of arts and sciences, although most applicants present four academic years and a bachelor's degree. The Committee on Admissions gives priority to the more advanced students.

The college program must have included English, physics, biology, general chemistry, and organic chemistry (including laboratory), covering at least one academic year each. Additional background in advanced mathematics and chemistry, and in genetics and embryology, may be useful but is not required. The student may have concentrated on any subject—in the natural sciences, social sciences, humanities, or arts—but evidence of a balanced education, as well as demonstrated interest and ability in the natural sciences, is preferred.

APPLICATION PROCEDURE

Application for admission must be filed on a special form which may be obtained from the Office of the Dean of the Faculty of Medicine. Applications are accepted only for the next incoming class; requests for application forms may be submitted one year in advance of registration. The completed form must be accompanied by the application fee of $20. The fee helps to cover the cost of processing the application; it is therefore not returnable and is not credited toward tuition.

If a personal interview is required in connection with the application, it will be requested by the Dean's Office.

SELECTION OF STUDENTS

The Committee on Admissions devotes months to the task of selecting a class of one hundred and thirty-two from a very large number of applicants. Obviously there will be many well-qualified students whom the College will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation and to the world as well, and welcomes qualified candidates from widely distributed geographical areas, provided they meet the standards of admission.

The Committee places great importance on the fact that the student has learned to think for himself, to explore, to work hard under his own initiative, to face alternatives and make decisions, and has developed a desire for a continuous program of self-education. Preference is given in the selection of students to those

who have shown, in the opinion of the Committee on Admissions, high achievement in their college education, a mature sense of values and sound motivation, qualities of leadership, willingness and ability to assume responsibility, and who, therefore, have already given evidence that they are likely to become ethical, well-trained, and competent physicians.

The practice of medicine is both a science and an art, and to treat the patient as a whole man, the doctor must be a whole man himself. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education of which science is a part.

ACCEPTANCE FEE

A student who has been notified that his application has been accepted should reply as early as possible stating whether or not he intends to register. He may send with his letter of acceptance a check or money order for $50, payable to Columbia University, to insure his place in the class. If accepted before January 1, he may request a postponement of payment of the acceptance fee until January 15. If accepted after January 15, he must notify the Dean and send his $50 acceptance fee within two weeks after he has received his letter of acceptance. This acceptance fee will be retained by the University. If the applicant does not register for the courses for the following academic year, it will not be returned unless the University for any reason cancels the acceptance. If the applicant registers at the College in the class to which he has been admitted, the amount of the acceptance fee will be credited to his tuition.

ADMISSION TO ADVANCED STANDING

Only a limited number of vacancies occur during the medical course, and students can be accepted on transfer from other schools only when such vacancies do occur. Any student desiring to transfer to the upper classes of the College should communicate with the Dean to learn if vacancies exist.

ADMISSION OF FOREIGN STUDENTS

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student who is not attending an American college or university and wishes to apply to the College should communicate with the Dean.

Applicants from other countries must have command of the English language and must have fulfilled all admission requirements, including at least three years of study in the liberal arts and sciences (not under a faculty of medicine). A personal interview is required of foreign students; hence, candidates cannot be considered before their arrival in the United States.

► REGISTRATION

Before attending classes, each student must register in person during the registration period (see the Academic Calendar). He goes to the Office of the Registrar, files a registration blank giving such information as may be required, and pays his fees. The office, on the second floor of the College building, is open from 9 a.m. to 5 p.m. daily except Saturdays and holidays.

All students will be asked to give social security numbers when registering in the University. Those who do not now have a number should obtain one from their local social security office well in advance of registration.

► REGULATIONS

Each person whose registration has been completed will be considered a student of the University during the term for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

The privileges of the University are not available to any student until he has completed his registration. Since, under the University statutes, payment of fees is part of registration, no student's registration is complete until his fees have been paid. No student is permitted to attend any University course for which he is not officially registered unless he has been granted auditing privileges. No student may register after the stated period unless he obtains the written consent of the proper dean or director.

ATTENDANCE

Students are held accountable for absences incurred owing to late enrollment. Any student whose religious duties conflict at any time with academic requirements should apply to his dean or director for an equitable solution.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems proper. The disciplinary authority of the University is vested in the President and, subject to his reserved powers, in the dean of each faculty and the director of the work of each administrative board.

HONOR CODE

Academic and intellectual integrity are accepted principles in the medical profession. An Honor Code, created and administered by the student body, is the formal acknowledgement of this understanding at the College. Each student is expected to abide by it.

► AUDITING COURSES

Degree candidates in good standing who are enrolled for a full-time program in the current term may audit one or two courses in any division of the University without charge by filing a formal application in the Registrar's Office (P&S, Room 2–405) during the change-of-program period. Applications require (*a*) the certification of the Registrar that the student is eligible to audit and (*b*) the approval of the dean of the school in which the courses are offered.

Elementary language courses, laboratory courses, and seminars are not open to auditors; other courses may be closed because of space limitations. In no case will an audited course appear on a student's record, nor is it possible to turn an audited course into a credit course by paying the fee after the fact.

► FEES

The following fees, prescribed by statute for medical students, are subject to change at any time at the discretion of the Trustees:

TUITION

For the full course in medicine for one academic year (or equivalent), payable in two installments	$2,100.00

RESEARCH IN RESIDENCE

During the academic year, for any period or part of a period not longer than an autumn term, spring term, or summer	$50.00

STUDENT HEALTH AND HOSPITAL FEE

For all students, per academic year (see page 38)	$65.36

APPLICATION FEES AND LATE FEES

For admission	$20.00
For each special examination	10.00
For renewal of application for a degree	1.00
For late registration	6.00
For late application, or late renewal of application, for a degree	5.00

PAYMENT OF FEES

Tuition is payable each term in advance and as part of registration. If this fee is paid after the last day of registration a late fee of $6 will be imposed. Checks for tuition and fees should be drawn to the order of Columbia University.

WITHDRAWAL AND ADJUSTMENT OF FEES

A student in good academic standing who is not subject to discipline will always be given an honorable discharge if he wishes to withdraw from the University. If he is under twenty-one years of age, his parent or guardian must first give consent in writing to the Dean.

Any adjustment of the tuition that the student has paid is reckoned from the date on which the Registrar receives the student's written notification. The student health and hospital fee, application fees, late fees, and special fees are not subject to rebate. Up to and including the second Saturday after the first day of classes tuition will be retained in the following amount:

Full-time study	$50.00
Part-time study	$25.00

After the second Saturday after the first day of classes in the term, the above amount is retained plus 20 percent of the remaining tuition for each week, or part of a week, of the term up to the date on which the student's written notice of withdrawal is received by the Registrar.

The Dean may, for a valid reason, grant a leave of absence to a student in good standing.

UNDUE BREAKAGE

Although no deposit is required of students to cover laboratory material and ordinary breakage, a charge will be made for any unusual amount of breakage.

STUDENT HEALTH SERVICE

Daily office hours for sick students are held by the Student Health Service in Room 2–200, Vanderbilt Clinic. Members of the Health Service are available to attend sick students who live near the Medical Center. Students who require hospitalization are taken care of either in the wards of the Medical Center or elsewhere under a hospitalization insurance policy.

The student health and hospital fee is used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance (unless a student already has hospital insurance) and to pay part of the cost of the student health service. Charges for the hospital insurance premium are subject to revision if rates are changed.

APPLICATION, OR RENEWAL OF APPLICATION, FOR A DEGREE

A candidate for the M.D. or Med.Sc.D. degree must file application for the degree by March 1 of the year in which he expects the degree to be awarded. Announcement of the date and procedure is posted on the bulletin boards each spring.

If the degree is not earned as expected, the application may be renewed the following year for a fee of $1. The M.D. and Med.Sc.D. degrees are awarded in June; the Ph.D. degree is awarded whenever the candidate completes the requirements.

► ESTIMATED EXPENSES

The approximate current cost of attending the College for an academic year is as follows:

	Average	*Minimum*
Tuition and fees	$2,165	$2,165
Room in Bard Hall	500	400
Board	800	750
Books and instruments (except microscope)	250	200
Laundry and dry cleaning	150	100

In addition, each student should budget an average of $350 (minimum $250) for such items as clothing, travel, amusements, and sundries.

MICROSCOPE, INSTRUMENTS, AND BOOKS

Each entering student is required to provide himself with a microscope of standard make fitted with the following attachments:

Binocular body with 10x wide field high-eyepoint eyepieces with pointer; quadruple nosepiece fitted with 4 achromatic objectives of approximately 4x, 10x, 45x, and 100x oil immersion; ungraduated mechanical stage; Abbe condenser with rack and pinion focusing mount; low voltage substage illuminator with transformer attached to the microscope (110 volt attached illuminator also acceptable); all in carrying case.

Minimum microscope requirements are: monocular microscope with 10x eyepiece; triple nosepiece; 10x, 45x, and 100x oil-immersion objectives; mechanical stage ungraduated; Abbe condenser; attached substage 110 volt lamp; carrying case.

The cost of a suitable reconditioned microscope varies from $300 to $600 depending on the age, make, and model. The standard prices of new microscopes range from $750 to $950. A limited number of monocular microscopes are available for rental at $15 a month or $120 for the school year.

Students are required to secure the usual instruments needed for the various diagnostic examinations of patients.

The books required or recommended for courses of instruction are announced at the beginning of the year.

► HOUSING

The current average room rate at Bard Hall is $500 for the academic year of thirty-eight weeks. First- and second-year medical student residents subscribe to a

five-day-a-week, fifteen-meal, prepaid board plan; the present rate is $475 for the academic year, exclusive of the Christmas and Easter holiday periods. In case of marked increase in operating costs, all rates are subject to change. Room application blanks and further information concerning rates will be furnished on request by the Bard Hall Office, 50 Haven Avenue, New York, N.Y. 10032.

Financial Aid

A *fellowship* is an academic award of honor accompanied by a stipend to be used by the fellow in the furtherance of his studies or research. Fellows are not required to render any service to the University or the donor; rather, they are to devote their entire time to their own work. There is no restriction on a fellow's publication of his studies or research as a condition of the grant. A fellow may not engage in any remunerative employment while holding a fellowship unless the Dean gives his written consent.

A *scholarship* is an award, based primarily on financial need, of a stipend to be used by the scholar in the furtherance of his studies or research. The same rules of tenure apply as those governing fellowships except that scholars may engage in remunerative employment without the consent of the Dean. Scholarship stipends are usually smaller than fellowship stipends.

Fellowships and scholarships are usually awarded for one academic year at a time. They may be canceled at any time for failure to maintain a satisfactory academic standard or to comply with the terms of the award. Fellows and scholars, except those holding traveling fellowships, are expected to reside in New York City or its vicinity during the academic year, unless written permission is granted by the Dean to study elsewhere.

Dates of application and further information may be obtained from the Office of the Dean.

FELLOWSHIPS

Area Institute. Varying in number; from $2,500 to $3,500 each. Open to graduates of, or second-year students in, the professional schools of the University; for work toward certificates in the regional institutes. An applicant is required to give the major portion of his time to the area program; he should discuss his program with the appropriate institute director before applying.

Bache, Jules S. (1945). Open to one or more graduate or undergraduate physicians who, in the judgment of the Professor of Obstetrics and Gynecology, are fitted to do special work in obstetrics and gynecology. Given by Mrs. Muriel Richards Pershing and Mrs. Dorothy Richards Hirshon, in memory of their grandfather, Dr. Jules S. Bache.

Barnes-Foster (1950). About $7,500. Open to women graduate students for work in gynecology.

Beekman, Gerard (1940). Awarded annually; about $7,100. Given by the Beekman Family Association.

Cutting, William Bayard, Traveling (1913). Two; awarded annually; about $5,000 each. Open to men who have been in residence as candidates for higher

degrees under the Graduate Faculties for at least one academic year and to graduates of the University in law, medicine, architecture, or music who have had at least one additional year of graduate study in the University. Given by Mrs. William Bayard Cutting, in memory of her husband, William Bayard Cutting, LL.B. (18)'71, M.A. (18)'72.

Du Bois, Abram. Awarded annually; about $7,600. Open to a graduate of the College; for specialization in diseases of the eye or for studies in surgical pathology. The holder devotes his time to clinical and laboratory study, at home or abroad. Given by the two sons and the daughter of Dr. Abram Du Bois, Class of 1835.

Ellis, George W. Awarded annually; about $5,000. Open to graduates of recognized Vermont colleges. Reappointment: for a student in medicine, not more than three additional years.

Gay, Frederick Parker, Memorial. Awarded annually; about $7,200. For graduate work in bacteriology; awarded on the nomination of the chairman of the Department of Microbiology.

Gies, William J. Awarded annually; about $1,300. For graduate study in biochemistry; awarded on nomination of the chairman of the Department of Biochemistry.

Holt, L. Emmett. Awarded annually; about $9,000. Open to a student of the graduating class of any medical school or to a graduate of not more than six years standing; for the study of diseases of children, in this country or abroad. Reappointment: for not more than one additional year.

James, Walter Belknap, Research. Awarded annually; about $7,000. Open to a graduate in medicine; for advanced study in medicine either at the University or elsewhere.

Koplik Children's Scholarship. Awarded every other year; about $2,000. Open to a physician under thirty years of age who has shown special aptitude for original work in the investigation of the diseases of children.

Lambert, Samuel W. and Elizabeth W., Traveling (1948). For specialization in surgery. Given in memory of Samuel W. and Elizabeth W. Lambert.

Proudfit, Maria McLean. Awarded every four years; about $2,200. Open to a son of native-born American parents; for advanced studies in internal medicine. The holder must remain unmarried for the duration of the fellowship. Given by Alexander Moncrief Proudfit, B.A., (18)92. Next award: 1969–1970.

Romaine, DeWitt C. (1946). For medical research in the College. Given by the estate of C. Everetta Romaine.

Ryle, Dorothy, Research (1950). For research in neurology. Given by Thorneycroft Ryle.

Tilney, Frederick, Memorial Fund. For such research projects in neurology as may be recommended from time to time by the chairman of the Department

of Neurology, the Dean of the Faculty of Medicine, and the President of the Board of Trustees of the Presbyterian Hospital. Given by the Frederick Tilney Memorial Fund, Inc.

Tucker, Ervin Alden. Awarded annually; about $5,500. For graduate study in obstetrics. Given by Mrs. Ervin Alden Tucker.

SCHOLARSHIPS

Alumni. A limited number of national scholarships. Provided by gifts from the P&S Alumni Association and other contributors.

Anonymous. Several; awarded annually. From an anonymous donor.

Banbury (1955). Open to students enrolled in the College. From the Banbury Scholarship Fund.

Bernheim, Isaac J. and Rena Henly. To be awarded annually. Given by the family in honor of Isaac J. and Rena Henly Bernheim.

Birtwhistle, Elsie J. (1965). Founded by the will of Morell Birtwhistle in memory of his wife; to assist one or more worthy students.

Blumenthal, George, Jr. Several. From the George Blumenthal, Jr., Fund.

Britenstool, Dr. Harry, Memorial (1964). From the estate of Mrs. Blanche B. Ostheimer in memory of her brother.

Brownstone, Lucien and Ethel, Merit Medical Scholarship Fund (1965). A merit scholarship to be awarded every four years. First award: 1965–1966. "Established for the benefit of humanity and for the encouragement of this nation's outstanding and gifted individuals to plan careers in medicine."

Buchman, Dr. Moses R., Memorial (1957). Open to undergraduate medical students, with preference given to those who are residents of Westchester and who plan to practice pediatrics. Established by friends of Dr. Buchman.

Bull, David C., Memorial (1959). In memory of Dr. David C. Bull, a former member of the Department of Surgery.

Butler, Richard. Open to men born in the state of Ohio who are qualified for admission to, and plan to enter, Columbia College, one of the Graduate Faculties, the Schools of Law or Engineering & Applied Science, or the College of Physicians and Surgeons. Reappointment: not more than two additional years.

Clark, Alonzo. Awarded annually. Founded by the will of Alonzo Clark, M.D., LL.D., for many years President of the College of Physicians and Surgeons.

Class of 1890. Awarded annually. Given by a member of the class.

Class of 1899. Awarded annually. For a resident scholarship. Given by the class in commemoration of the thirty-fifth anniversary of its graduation.

Class of 1912. Awarded annually. Given by the class on the fifteenth anniversary of its graduation.

Class of 1920. Awarded annually. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1932. Awarded annually. For a scholarship room. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1933. For a scholarship room.

Class of 1936. Awarded annually. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1952. Given by members of the class on the tenth anniversary of its graduation.

Class of 1953. Awarded annually. Given by members of the class.

DeAngelis, Anthony M. (1958). Open to a student of the fourth-year class. Given by Dr. Anthony M. DeAngelis.

Dennett, Horace. Several; awarded annually. Open to students in the third- and fourth-year classes whose records of ability and scholarship give evidence of special fitness.

Detwiler, Samuel R., Memorial (1957). Awarded annually. Given by Dr. Detwiler's friends and colleagues.

Devendorf, David M. Preference is given to a candidate from Herkimer County, New York, preferably one from the town of Herkimer. Given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861.

Doughty, Francis E. Given by Miss Phoebe Caroline Swords, in memory of Dr. Francis E. Doughty, Class of 1869.

Eichner, Joseph Herman and Hannah (1941). Awarded annually. Founded by the will of Benjamin Bernard Eichner, Class of 1919.

George and Charlie (1942). Awarded annually. Given by the Alumni Association of the College, in memory of George Peters and Charles Costello.

Hanlon, John F. Awarded annually. Given by members of the Class of 1951, in memory of their classmate, John F. Hanlon.

Harsen, Jacob (1859). Five; awarded annually: two to students in the second-year class, two to students in the third-year class, and one to a student in the fourth-year class. Given by Dr. Jacob Harsen.

Hartley, Frank (1914). Given by friends and colleagues of Dr. Frank Hartley, Class of 1880.

Hemingway, William H. Several; awarded annually; to cover tuition.

Himmelstein, Aaron, Memorial (1960). Awarded annually. Open to undergraduate medical students. Given by Dr. Himmelstein's friends and colleagues.

Huber, Francis. Awarded annually. Open to a graduate of any institution other than Columbia University, the College of the City of New York, Barnard College, and Hunter College. Given by Dr. Francis Huber.

Huber, Viola B. Awarded annually. Open to a graduate of Hunter College. Given by Dr. Francis Huber.

Jacobi, Abraham. Four; awarded annually; two to graduates of Columbia University and two to graduates of the College of the City of New York. Given by Dr. Francis Huber in memory of Dr. Abraham Jacobi.

Loeb, Robert F., Educational Gift (1961). For the education of children of full-time staff members.

McAneny, Marjorie. Awarded annually. Open to a graduate of Barnard College. Given by Dr. Francis Huber.

Markoe, Francis Hartman. Awarded annually. Given by Madeline Shelton Markoe, in memory of her husband.

Rappleye, Willard Cole. Established at the retirement of Dean Rappleye.

St. John-Princeton (1955). Open to graduates of Princeton University who have been admitted to the College.

Saphir, Joseph F., Memorial (1960). Awarded annually. Given by Elsa M. Saphir, in memory of her husband, Joseph F. Saphir, Class of 1902.

Severinghaus, Aura E. (1961). Established by The Clark Foundation as an unrestricted, discretionary fund to be used primarily for the support of students and student activities. Requests of fourth-year students who, by electing clerkships at the Mary Imogene Bassett Hospital, Cooperstown, New York, are subject to increased living and transportation costs are given priority.

Severinghaus, Aura E. (1962). Awarded annually. Given by faculty members, alumni, and students.

Stewart, Edgar Eginton, Jr., Memorial. Awarded annually. Given by Dr. E. E. Stewart, in memory of his son.

Vollmer, Hermann. Awarded annually. Open to candidates in medicine. Established in his memory by his wife.

Vosseler, Theodore L. Awarded annually. Preference is given to graduates of Colgate University. Given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler.

Wechsler, Robert M. Awarded annually. Given by Dr. I. S. Wechsler, in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the Class of 1945, in memory of their classmate.

Wilson, Dr. James Lancelot. Awarded annually. In the words of the donor: "the income from this fund is to be awarded each year, without regard to race,

creed or color, to a deserving male or female student suffering from ischemia of opportunity and finance; such student to be selected by the College of Physicians and Surgeons."

PRIZES

With the exception of the Stevens Triennial Prize, all awards are made annually.

Coakley Memorial Prize. $200. Awarded by the Department of Otolaryngology to the student who, in the opinion of the Professor of Otolaryngology, has done the best work in the field for the current year.

Cock, Thomas F., M.D., Prize. About $200. Awarded to the student in the College who submits the best thesis on puerperal fever. Given by bequest of Augustus C. Chapin.

Gay, Frederick Parker, Memorial Award (1948). About $100. Awarded to a student doing outstanding work in microbiology who is chosen by the chairman of the Department of Microbiology and the Dean of the Faculty of Medicine. Given by Mrs. Frederick Parker Gay, in memory of her husband.

Janeway Prize. About $200. Awarded to the student graduating from the College who, in the opinion of the Faculty, has ranked highest in efficiency and ability. Given by bequest of Matilda S. J. Wisner.

Meierhof, Dr. Harold Lee, Prize. About $100. Awarded by the Professor of Pathology to the student who, in his opinion, has done the best work in the field for the current year. Given by the parents of Dr. Harold Lee Meierhof, Class of 1917.

Parker, Joseph Garrison, Award. Awarded to the senior in the College who best exemplifies, through a continued personal interest and activities in art, music, literature, or the public interest, the fact that Living and Learning go together. Given by Dr. and Mrs. Philip Parker, in memory of their son, Joseph, Class of 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts was a constant source of inspiration.

Psychiatry, Department of, Prize. About $50. Awarded by the Department of Psychiatry to a second-year student for the best work in psychopathology.

Sciarra, Helen M., Prize. About $100. Awarded to the fourth-year student who has done the best work in the third-year neurology elective.

Smith, Joseph Mather, Prize. About $700. Awarded to the graduate of the College whose essay or original research in medical subjects is deemed by the Committee of Award to be the most meritorious.

Stevens Triennial Prize. About $400. Awarded triennially to the person, not necessarily a graduate of the College, who submits the best essay or original research on any medical subject.

Urology Prize. About $100. Awarded to the undergraduate student who submits the best essay on a urological subject during the school year.

Watson, Dr. William Perry, Foundation in Pediatrics Prize (1921). About $500. Awarded to a member of the graduating class who has been in attendance for at least two years and who has shown the most efficient work in the study of the diseases of infants and children during the regular course at the College.

Winchester, Walter, Prize. About $100. Awarded to the senior in the College who, in the opinion of the Faculty, has the potential of exemplifying the humanitarian spirit in the art and practice of medicine as lived by the late Dr. Winchester, Class of 1900. Given by Dr. and Mrs. Lewis D. Kaufman.

STUDENT LOANS

Loan funds are provided by Columbia University and by the Health Professions Student Loan Program, through the University, for the assistance of students after enrollment. Application forms may be obtained from the Office of the Dean.

Students who are legal residents of New York State are eligible for loans and for New York State Scholar Incentive Awards through the New York State Higher Education Assistance Corporation. Application forms and instructions are issued by the Dean's Office.

Limited funds are available periodically for loans to medical students in emergencies. These funds, administered by the Dean, come from gifts by classmates and friends in memory of John Adams Mahew, Class of 1955, and from other sources.

STUDENT EMPLOYMENT

The Dean's Office will assist in obtaining suitable positions for medical students and graduates who are in need of employment. A list of the available positions for medical students is maintained. Because of the heavy schedule of the College it is difficult for medical students to undertake part-time work outside the Medical Center during the academic year and, so far as feasible, other financial arrangements should be made.

The wives of medical students will find many opportunities for employment at the Medical Center; those who are interested should consult the personnel offices of the College and the Hospital.

Student and Alumni Activities

All students enrolled in the College enjoy the privileges and facilities of the University campus, including the University libraries, the Placement Office, and the various student activities.

P&S CLUB

The P&S Club is now in its seventy-fourth year. During its long history it has concerned itself with the extracurricular activities of the medical students. It has enriched student life at P&S with its broad program of social, spiritual, athletic, and cultural activities. The program is carried out by more than twenty student committees under the full-time services of the Director of Student Activities, Mr. Edwin M. Barton.

A faculty board of advisers assists the students and the Director in the operation and support of the club program. Every matriculated student in the College of Physicians and Surgeons is automatically a member and is invited to participate in the pursuits of his choice.

Among the activities sponsored by the P&S Club are an orientation program for new students, athletic contests, concerts, choir and vesper services, talks by guest lecturers, home visits with members of the faculty, and student-faculty visits.

In recent years, the Club has also sponsored conferences on such subjects as medicine and religion, and medicine and law, as well as on medical service appointments here and abroad.

THE ALPHA OMEGA ALPHA HONORARY FRATERNITY

The Alpha Omega Alpha honorary fraternity is a medical honor society, membership in which is based scholarship and character. A chapter was organized at the College of Physicians and Surgeons in 1907.

ALUMNI ASSOCIATION OF THE COLLEGE OF PHYSICIANS AND SURGEONS

After graduation, all students who are in good professional standing may become members of the Alumni Association of the College of Physicians and Surgeons by notifying the secretary, Dr. Stuart W. Cosgriff, 630 West 168th Street, New York, N.Y. 10032, that they wish to join.

Departments of Instruction

ANATOMY

PROFESSORS

Edward W. Dempsey, *chairman*. *B.A., Marietta, 1932; Sc.M., Brown, 1934; Ph.D., 1937; M.A., Harvard, 1946; Sc.D., Marietta, 1954*
Malcolm B. Carpenter. *B.A., Columbia, 1943; M.D., Long Island, 1947*
Herbert O. Elttman. *B.A., California, 1923; M.A., 1925; Ph.D., Columbia, 1929*
Sara A. Luse. *B.A., Rockford, 1940; M.D., Western Reserve, 1949*
Frederick A. Mettler (assigned to Neurology). *B.A., Clark, 1929; M.A., Cornell, 1931; Ph.D., 1933; M.D., Georgia, 1937; D.Sc., Clark, 1951*
Melvin L. Moss (Dean, Faculty of Dental and Oral Surgery). *B.A., New York University, 1942; D.D.S., Columbia, 1946; Ph.D., 1954*
Margaret R. Murray (assigned to Surgery). *B.A., Goucher, 1922; M.S., Washington University, 1924; Ph.D., Chicago, 1926*
Charles R. Noback. *B.S., Cornell, 1936; M.S., New York University, 1938; Ph.D., Minnesota, 1942*
George K. Smelser (assigned to Ophthalmology). *B.A., Earlham, 1929; Ph.D., Chicago, 1932*

ASSOCIATE PROFESSORS

Frederic J. Agate. *B.A., Columbia, 1932; Ph.D., 1949*
Philip W. Brandt. *B.A., Swarthmore, 1952; M.S., Pennsylvania, 1957; Ph.D., Columbia, 1960*
Richard P. Bunge. *B.A., Wisconsin, 1954; M.S., 1956; M.D., 1960*
Charles A. Ely. *B.A., Washington and Jefferson, 1936; Ph.D., Wisconsin, 1949*
William M. Rogers. *B.S., Georgia, 1921; Ph.D., Cornell, 1927*

ASSISTANT PROFESSORS

John M. Bedford (assigned to International Institute for Study of Human Reproduction). *B.A., Cambridge, 1958; M.A., Vet.M.B., M.R.C.V.S., 1958; Ph.D., London, 1965*
George W. Cooper, Jr. *B.A., Brown, 1958; Ph.D., Stanford, 1964*
Marie D. Felix. *B.S., American, 1956; M.S., Cornell, 1961; Ph.D., 1962*
Edmund B. Masurovsky. *B.S., Cornell, 1954; M.S., 1957; Ph.D., 1960*
Mary S. Parshley (assigned to Obstetrics and Gynecology). *B.A., Smith, 1933; M.A., Pennsylvania, 1935; Ph.D., 1938*
Shih-Chang Shen. *B.S., Yenching, 1933; Ph.D., Cambridge, 1939*
Nancy Trotter. *B.A., Oberlin, 1956; Sc.M., Brown, 1958; Ph.D., 1960*

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Shu Chien. *M.B., National Taiwan, 1954*
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Mero Nocenti. *B.A., West Virginia, 1951; M.S., 1952; Ph.D., Rutgers, 1955*
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ASSISTANT PROFESSORS

John S. Britten. *B.S., Yale, 1954; M.D., Columbia, 1958*
Leroy L. Costantin. *B.A., Columbia, 1955; M.D., 1959*
Robert J. Dellenback. *B.A., California, 1950; M.A., 1953; Ph.D., 1955*
Raimond Emmers. *B.A., East Texas Baptist, 1953; M.A., North Carolina, 1955; Ph.D., Syracuse, 1958*
Arthur Karlin (assigned to Neurology). *B.A., Swarthmore, 1957; Ph.D., Rockefeller Institute, 1962*
George M. Krauthamer (assigned to Neurology). *B.S., College of the City of New York, 1951; Ph.D., New York University, 1959*
Richard C. Mason (assigned to Urology). *Ph.D., Indiana, 1952*
Shunichi Usami. *M.B., Kyoto Prefectural University of Medicine (Japan), 1949; Ph.D., 1957*
Paul Witkovsky (assigned to Ophthalmology). *B.A., California, 1958; M.A., 1960; Ph.D., 1962*

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PROFESSORS

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Ruth Z. Gold. *B.A., Hunter, 1941; M.A., Columbia, 1943; Ph.D., 1960*
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ASSISTANT CLINICAL PROFESSOR

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Leo Srole. *B.S., Harvard, 1933; Ph.D., Chicago, 1940*

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PROFESSOR OF SURGICAL PATHOLOGY

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PROFESSORS OF CLINICAL SURGERY

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ASSOCIATE CLINICAL PROFESSORS

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ASSISTANT PROFESSORS

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Paul D. Harris. *B.A., Princeton, 1954; M.D., Columbia, 1958*
Gerard A. Kaiser. *B.A., Princeton, 1954; M.D., Columbia, 1958*
Sven Kister. *B.A., Dartmouth, 1955; M.D., Harvard, 1958*
Richard L. Simmons. *B.A., Harvard, 1955; M.D., Boston, 1959*
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ASSISTANT PROFESSOR OF BIOCHEMISTRY

Irving Goodman. *B.A., Colorado, 1939; M.S., 1941; Ph.D., 1944*

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Maun, Richard Angus Grosse Pointe, Mich.
B.A., Yale, 1965
Mazzullo, John Michael, III New Rochelle, N.Y.
B.A., Rutgers, 1965
Menendez, Carlos Eugenio New York, N.Y.
B.S., St. Joseph's, 1965
Merriam, Walter Woodhull Chester, N.Y.
B.A., Williams, 1965
Michelsen, Christopher Bruce Boston, Mass.
B.A., Bowdoin, 1961
Moore, Anne Short Hills, N.J.
B.A., Smith, 1965
Moskovitz, Peter Alan Scarsdale, N.Y.
B.A., Haverford, 1965
Nash, Irwin New York, N.Y.
B.S., Yale, 1965
Newell, Michael Eugene Salt Lake City, Utah
B.A., Columbia, 1965
Ogundipe, Olufemi Oludolapo Lagos, Nigeria
B.A., Haverford, 1964
Pao, David Sien Chin Bethesda, Md.
B.S., Swarthmore, 1965
Peterson, Charles Marquis Seattle, Wash.
B.A., Carleton, 1965
Polacheck, John W. Milwaukee, Wis.
B.A., Harvard, 1965
Pollack, James A. Binghamton, N.Y.
B.A., Hamilton, 1965
Price, Trevor Robert Pryce Keene, N.H.
B.A., Yale, 1965
Przybyla, Andrew C. New York, N.Y.
B.S., Columbia, 1960
Ph.D., Columbia, 1965
Pulito, Andrew Raymond East Rockaway, N.Y.
B.A., Holy Cross, 1965
Reichert, William Walter Indianapolis, Ind.
B.A., Yale, 1965
Reiffel, James Andrew Scarsdale, N.Y.
B.A., Duke, 1965
Reza, Robert Joel Kansas City, Mo.
B.A., Columbia, 1965
Rollefson, Dorothy Ann Madison, Wis.
B.A., Stanford, 1965
Rosenberg, Lawrence Elliot Mamaroneck, N.Y.
B.A., Princeton, 1965
Rosenglick, Arthur Russell Bala Cynwyd, Pa.
B.A., Wesleyan, 1965
Rundles, Charlotte Durham, N.C.
B.S., Duke, 1965
Saari, George John Hibbing, Minn.
B.A., St. Olaf, 1965
Santomauro, Anthony Gerard Franklin Square, N.Y.
B.S., St. John's, 1965
Schwarz, Robert DuBois New York, N.Y.
B.A., Harvard, 1965
Sculco, Thomas Peter Watch Hill, R.I.
B.A., Brown, 1965
Sholem, Steven Lee New Rochelle, N.Y.
B.A., Pennsylvania, 1965
Southwick, William Henry Plainfield, N.J.
B.A., Princeton, 1965
Stasiuk, Demetrius West Caldwell, N.J.
B.A., Princeton, 1963
Steere, Allen Caruthers Fort Wayne, Ind.
B.A., Columbia, 1965

Stevenson, Charles S., Jr. Grosse Ile, Mich.
B.A., Princeton, 1959
Dip. in Eng. Studies, Edinburgh, 1964
Stingle, Walter H. New York, N.Y.
B.A., Columbia, 1965
Thorley, Jeffrey Daynes Salt Lake City, Utah
B.S., Utah, 1965
Tittle, Kenneth Marvin Vancouver, Wash.
B.A., Stanford, 1965
Titzler, Robert Peter New York, N.Y.
B.S., City College of New York, 1961
Tucker, William Morris St. Louis, Mo.
B.A., Harvard, 1962
M.A., Yale, 1965
Turner, Dennis Clinton Stockton, Calif.
B.A., Harvard, 1965
Vincent, Roger Phillips North Olmsted, Ohio
B.A., Hamilton, 1965
Weinstein, Samuel Great Neck, N.Y.
B.A., Yale, 1965
Weisberg, Jeffrey Alan White Plains, N.Y.
B.S., Columbia, 1965
Weyman, Albert Krug Cincinnati, Ohio
B.A., Yale, 1965
Wiederhorn, A. Roger White Plains, N.Y.
B.A., Princeton, 1965
Williams, John Closs Glens Falls, N.Y.
B.S., Cornell, 1965
Wilson, Hugh Douglas Rochester, N.Y.
B.A., Wesleyan, 1965
Wolferstan, Martin Cambridge, England
B.A., Cambridge, 1960
Workum, Fifield, Jr. Bedford, N.Y.
B.A., Harvard, 1961
Wylie, John Voorhees New York, N.Y.
B.A., Yale, 1964
Yount, Billy Gerald, Jr. Tulsa, Okla.
B.A., Princeton, 1965

Class of 1970

Albro, Peter Carey Warsaw, N.Y.
B.A., Hamilton, 1966
Balch, T. Stephen Toledo, Ohio
B.A., Northwestern, 1966
Benoit, Kenneth George Spencer, Mass.
B.A., Columbia, 1966
Berger, Michael Dean Glen Cove, N.Y.
B.A., Colgate, 1966
Bergman, William Leslie Westbury, L.I., N.Y.
B.A., Amherst, 1966
Blair, Gretchen Anne Derry, Pa.
B.A., Bryn Mawr, 1966
Blank, Howard Lawrence Brooklyn, N.Y.
B.A., Columbia, 1966
Bogdasarian, John Robert Binghamton, N.Y.
B.A., Harvard, 1966
Bordley, James, IV Cooperstown, N.Y.
B.A., Yale, 1965
Boucher, Richard Charles Sacramento, Calif.
B.A., Yale, 1966
Brown, Arthur Stuart New York, N.Y.
B.A., Cornell, 1956
Brown, Frederick Gordon West Orange, N.J.
B.A., Princeton, 1963
Brown, George Clifford Old Greenwich, Conn.
B.A., Yale, 1966
Brunn, Frederick Milton, Jr. Madison, N.J.
B.A., Lafayette, 1966
Buchanan, Steven Clyde Little Rock, Ark.
B.A., Columbia, 1966
Budetti, Peter Paul Hollywood, Fla.
B.A., Notre Dame, 1966
Burks, John Mallory Bedford, Va.
B.S., Davidson, 1966
Burton, David A. Orem, Utah
Brigham Young
Carlson, Richard Gunnar West Hartford, Conn.
B.S., Trinity, 1966
Carmichael, Daniel Herbert Birmingham, Ala.
B.A., Princeton, 1966
Carson, Dennis Anthony New York, N.Y.
B.A., Haverford, 1966
Cassidy, Bruce Alan Rosedale, N.Y.
B.A., Queens, 1966
Chang, Paul Baldwin, N.Y.
B.A., Harvard, 1966
Charlesworth, David Chandler Plainfield, N.J.
B.S., Trinity, 1966
Cinberg, James Zubow New York, N.Y.
B.A., Dartmouth, 1966
Cole, Stephen Adams Stratton, Vt.
B.A., Cornell, 1961
M.A., Harvard, 1964
Combs, Robert Lawson Cheverly, Md.
B.A., Lafayette, 1966

Cooper, Candace Wentworth Rochester, N.H.
B.A., Smith, 1966
Corcoran, David Michael Washington, D.C.
B.A., Princeton, 1966
Cross, Alan Whittemore Princeton, N.J.
B.A., Yale, 1966
Dickinson, Philemon Waterbury, Conn.
B.A., Princeton, 1964
Dilley, Russell Stephen Nashville, Tenn.
B.S., Yale, 1966
Dingeldein, George Peter Greensboro, N.C.
B.A., North Carolina, 1966
Esposito, John Louis Portland, Me.
B.A., Bowdoin, 1966
Fauer, Ronald Barry West Orange, N.J.
B.A., Franklin and Marshall, 1966
Fleiss, David Jonathan Brooklyn, N.Y.
B.A., Cornell, 1966
Foulks, Gary Neal Salt Lake City, Utah
B.A., Columbia, 1966
Furgang, Fred Arnold Bronx, N.Y.
B.A., New York University, 1966
Gold, Jon W. M. New York, N.Y.
B.A., Columbia, 1965
Goldwater, W. Eugene New York, N.Y.
B.A., Harvard, 1966
Goodman, Neil Franklin Brooklyn, N.Y.
B.A., Cornell, 1966
Gratwick, Geoffrey Mason Woodbury, Conn.
B.A., Harvard, 1965
Greenberg, Harry Bernard Rye, N.Y.
B.A., Dartmouth, 1966
Gusberg, Richard Jefferson Dobbs Ferry, N.Y.
B.A., Yale, 1966
Gustavson, Paul Frederick, Jr. Cresskill, N.Y.
B.S., M.I.T., 1966
Guthrie, Gordon Page, Jr. Fairfield, Conn.
B.S., Yale, 1966
Guy, Matthew Joel Brooklyn, N.Y.
B.A., Brooklyn, 1966
Halper, James Paul Fresh Meadows, N.Y.
B.A., Columbia, 1965
Hazard, William Lawrence New York, N.Y.
B.A., Yale, 1966
Helming, Charles Vernon Amherst, N.Y.
B.S., Yale, 1965
Henderson, I. Craig Sac City, Iowa
B.A., Grinnell, 1963
Hickey, Paul Robert Wayne, Me.
B.A., Yale, 1966
Hinrichs, William Alden Douglas, Wyo.
B.S., Harvard, 1966
Hoche, John Philip Winter Park, Fla.
B.S., M.I.T., 1966
Hofmann, Peter L. New York, N.Y.
B.A., New York University, 1963
Howe, Edmund Grant Sarasota, Fla.
B.A., Yale, 1966
Icenhower, William Bryan Drexel Hill, Pa.
B.A., Princeton, 1962
Jones, Edward Clyde Old Greenwich, Conn.
B.A., Colgate, 1964
M.A., Wesleyan, 1966
Kasparek, Sally J. Wichita, Kans.
B.A., Wichita State, 1961
M.A., Columbia, 1966
Kates, Richard Joel Newton, Mass.
B.A., Princeton, 1966
Kohl, Steve Brooklyn, N.Y.
B.S., City College of the City University of New York, 1966
Kramer, Karen Renn Great Neck, N.Y.
B.A., Wisconsin, 1966
Kronenberg, Henry Morris Cleveland, Ohio
B.A., Harvard, 1966
Lang, Soren David Kankakee, Ill.
B.A., Yale, 1966
Leichtling, Jonathan Jacob New York, N.Y.
B.S., Trinity, 1966
Lessey, Robert Allen Wilmington, Del.
B.A., Yale, 1966
Li, Florence Chang Chungking, China
B.A., Mount Holyoke, 1964
Liberman, Arthur Roy West Orange, N.J.
B.A., Rutgers, 1966
Lichtenberg, Stephen Brook Bedford Hills, N.Y.
B.A., Swarthmore, 1966
Lipson, Diane Teaneck, N.J.
B.A., Pennsylvania, 1966
Lorieo, Danne Roy New York, N.Y.
B.S., Manhattan, 1966
Lundberg, Walter B. Ridgewood, N.J.
B.A., Hamilton, 1966
Madigan, John Callanan Birmingham, Mich.
B.A., Georgetown, 1966
Massie, Barry Michael St. Louis, Mo.
B.A., Harvard, 1966
McConnell, Judith Ann Durham, N.H.
B.S., Swarthmore, 1966
McFarlane, William R., Jr. Nashville, Ind.
B.A., Earlham, 1965
McMath, Jonathan Clark Royal Oak, Mich.
B.A., Brown, 1966
Middleton, Robert Stacy Wayne, N.J.
B.A., Princeton, 1966

Miller, Charlotte Buck New Haven, Conn.
B.A., Smith, 1963
M.P.H., Yale, 1965
Moyer, Peter Hatt Franconia, N.H.
B.A., Harvard, 1966
Mudge, Gilbert Horton Lyme, N.H.
B.A., Amherst, 1966
Nichols, Peter Osgood Wilton, Conn.
B.A., Harvard, 1965
Norris, Tom Randolph Fort Worth, Tex.
B.A., Princeton, 1966
Nowygrod, Roman Brooklyn, N.Y.
B.A., Harvard, 1966
Osborn, Harold Holmes Hamden, Conn.
B.A., Yale, 1966
Parry, Michael Frank Loma Linda, Calif.
B.A., Yale, 1966
Patterson, Thomas Holden Valley Stream, N.Y.
B.A., Colgate, 1966
Pepe, Anthony John Flushing, N.Y.
B.S., St. John's, 1966
Pessar, Linda Faith Philadelphia, Pa.
B.A., Wellesley, 1966
Peterson, Phillip Keith Chicago, Ill.
B.A., St. Olaf, 1965
Provine, Martha Monson New York, N.Y.
B.A., Mount Holyoke, 1965
Quest, Donald Oliver St. Louis, Mo.
B.S., Illinois, 1961
Ramsey, William Henry Oak Ridge, Tenn.
B.A., Dartmouth, 1967
Raviola, Carol Ann Schenectady, N.Y.
B.A., Mount Holyoke, 1966
Rice, Thomas Audet Palo Alto, Calif.
B.S., Massachusetts Institute of Technology, 1966
Richardson, William Waddle, Jr. Seattle, Wash.
B.S., Washington, 1965
Riely, Caroline Armistead Richmond, Va.
B.A., Mount Holyoke, 1966
Rodman, John Stephen New York, N.Y.
B.A., Columbia, 1966
Rothenberg, Ronald Neil Far Rockaway, N.Y.
B.A., Lehigh, 1966
Sarnoff, Karen Ann Roslyn Heights, N.Y.
B.A., Cornell, 1966
Schachtel, Bernard Pinsker New York, N.Y.
B.A., Yale, 1966
Schmidt, Robert Milton Cudahy, Wis.
B.A., Northwestern, 1966
Self, E. Baldwin, Jr. Dobbs Ferry, N.Y.
B.A., Yale, 1966
Shafer, Stephen Quentin Annandale-on-Hudson, N.Y.
B.A., Harvard, 1966
Singer, Mark Irwin Toledo, Ohio
B.A., Michigan, 1966
Siris, Samuel Gidding Penns Grove, N.J.
B.A., Lehigh, 1966
Sondheimer, Henry Melville New York, N.Y.
B.A., Harvard, 1966
Spiegel, Richard Marc Brooklyn, N.Y.
B.A., Pennsylvania, 1966
Spotnitz, Alan Jeffrey New York, N.Y.
B.A., Harvard, 1966
Starkebaum, Gordon Alan Kennewick, Wash.
B.S., Washington, 1966
Tansey, William Austin, III Short Hills, N.J.
B.A., Yale, 1966
Tapper, Michael L. Forest Hills, N.Y.
B.A., Columbia, 1965
M.A., Columbia, 1966
Taylor, James Lane Dothan, Ala.
B.A., Columbia, 1966
Tice, Alan Douglas Mason City, Iowa
B.A., Harvard, 1966
Tindall, Richard Steven San Marino, Calif.
B.A., Southern California, 1966
Tucker, Susan Yarnall Cambridge, Mass.
B.A., Radcliffe, 1965
Van Kennen, James Fisher Winnetka, Ill.
B.A., Wesleyan, 1966
Wales, Katherine Cohn Bronxville, N.Y.
B.A., Sarah Lawrence, 1966
Wallach, Ronald Bayside, N.Y.
B.S., Tufts, 1966
Walworth, Edward Zinsser New Canaan, Conn.
B.A., Princeton, 1966
West, Olin Leslie, III Haverford, Pa.
B.A., Princeton, 1962
Whittemore, Anthony Dunster Cohasset, Mass.
B.S., Trinity, 1966
Wightman, Mark Austin Weston, Conn.
B.A., Yale, 1964
Woodcock, Thomas Mark Fredonia, N.Y.
B.S., Allegheny, 1966
Wrigley, Keith Allen, Jr. Sidney, N.Y.
B.A., Hamilton, 1964
M.A., Minnesota, 1966
Zakov, Zvetan Nikolov Cleveland Heights, Ohio
B.A., Kenyon, 1966
Zimmerman, Andrew Walter Harrisburg, Pa.
B.A., Princeton, 1966
Zuckerman, Alan Elliot Brooklyn, N.Y.
B.A., Brooklyn, 1966

Class of 1971

Ames, Elizabeth D. Highland Park, Ill.
B.A., Radcliffe, 1965
Apfel, Franklin Jay New York, N.Y.
B.A., Swarthmore, 1967
Avery, Gaylord James, II Old Greenwich, Conn.
B.A., Yale, 1967
Baker, John Drayton Far Hills, N.J.
B.A., Princeton, 1967
Barnett, Jeffrey David Scarsdale, N.Y.
B.S., Tufts, 1967
Barrett, David Hale Santa Barbara, Calif.
B.A., Dartmouth, 1967
Bedwinek, John Morris Wheeling, W.Va.
B.A., Oberlin, 1967
Belgraier, Arnold Harvey New York, N.Y.
B.A., Boston, 1967
Berenberg, Richard Alan Brookline, Mass.
B.A., Harvard, 1967
Berkman, Alan Middletown, N.Y.
B.A., Cornell, 1967
Berkowitz, Fred Pittsburgh, Pa.
B.A., Washington & Jefferson, 1967
Bessman, Joel David Baltimore, Md.
B.A., Columbia, 1967
Braun, Jory Lewis Great Neck, N.Y.
B.A., Duke, 1967
Brensilver, Jeffrey Michael Valley Stream, N.Y.
B.A., Columbia, 1967
Bruno, Leonard A. Springfield, Pa.
B.A., Princeton, 1967
Buhl, Walter Richard Slayton, Minn.
B.A., Yale, 1967
Chambers, Richard Byron New York, N.Y.
B.S., City College of the City University of New York, 1967
Chodoff, Mark Edward Chevy Chase, Md.
B.S., Yale, 1967
Clapp, Richard Waldo Lewiston, Me.
B.A., Dartmouth, 1967
Clyman, Ronald Ian Scarsdale, N.Y.
B.A., Amherst, 1967
Coe, Eric Harry Baton Rouge, La.
B.S., Massachusetts Institute of Technology,1967
Cohen, Daniel Elliot New York, N.Y.
B.A., Columbia, 1967
Conard, Frederick Underwood, III West Hartford, Conn.
B.A., Wesleyan, 1967
David, Sami Salim Great Neck, N.Y.
B.A., Columbia, 1967
deCiutiis, Alfred Charles New York, N.Y.
B.S., Fordham, 1967
De Jong, Russell Nelson, Jr. Ann Arbor, Mich.
B.S., Michigan, 1967
Dietzgen, Walter Anthony Highland Park, Ill.
B.A., Columbia, 1967
Doblin, Ellen Margaret Jamaica, N.Y.
B.A., Wellesley, 1967
Drew, Thomas Martin Barrington, R.I.
B.A., Wesleyan, 1967
Edoga, John Kingsley Westport, Conn.
B.A., Columbia, 1967
Eggers, Arnold Edwin New York, N.Y.
B.A., Columbia, 1967
Eggers, Howard Milliren New York, N.Y.
B.A., Columbia, 1967
Engleman, Edgar George San Mateo, Calif.
B.A., Harvard, 1967
Evans, James Folpmers Wilton, Conn.
B.A., Princeton, 1967
Fass, Steven Joshua New York, N.Y.
B.A., Hamilton, 1967
Finkelstein, Jay Nathan Coral Gables, Fla.
B.S., Columbia, 1965
M.S., New York University, 1967
Fischer, William John Henry, III Providence, R.I.
B.A., Yale, 1966
Freese, Kenneth Jay New York, N.Y.
B.S., Hobart, 1967
Gann, Erik New York, N.Y.
B.A., Yale, 1967
Gluckman, Stephen John Roslyn, N.Y.
B.A., Brown, 1967
Goozner, Barry Edward North Woodmere, N.Y.
B.A., Johns Hopkins, 1967
Grebe, Stephen Charles Wilton, Conn.
B.A., Pennsylvania, 1967
Greene, Jonathan Isaac Paterson, N.J.
B.A., Pennsylvania, 1967
Gunther, Stephen Jerome Galesburg, Ill.
B.A., Illinois, 1967
Gustafson, Dennis Herbert Salt Lake City, Utah
B.A., Princeton, 1967

Hagbom, Nelden William Palo Alto, Calif.
B.A., Stanford, 1967
Hammer, Mark Eugene Brentwood, Mo.
B.S., Yale, 1966
Harbison, William Arthur Princeton, N.J.
B.A., Oberlin, 1967
Hayashi, Curt Upper Nyack, N.Y.
B.A., Harvard, 1966
Hickes, Robert George Great Falls, Mont.
B.A., Columbia, 1967
Hill, George S., Jr. Anchorage, Ky.
B.A., Yale, 1966
Holt, Joseph Williams, III Schenectady, N.Y.
B.A., Princeton, 1967
Hughes, John Boland Haverford, Penn.
B.A., Yale, 1967
Iacobellis, Frank William Pelham Manor, N.Y.
B.A., Holy Cross, 1967
Janowitz, Kenneth George New York, N.Y.
B.S., City College of the City University of New York, 1967
Johnson, Martin McDermid Brookings, S.D.
B.S., South Dakota, 1967
Jones, Charles Max Asheville, N.C.
B.A., North Carolina, 1968
Kachel, Richard Gary New York, N.Y.
B.A., Lehigh, 1967
Kelly, Edward Allen Atlanta, Ga.
B.A., Davidson, 1967
Kennedy, Timothy Chesney Tucson, Ariz.
B.A., Yale, 1965
M.A., Arizona, 1967
Koliner, Charles Michael Broomall, Pa.
B.S., U.S. Air Force Academy, 1966
Kovage, Susan Hoosick Falls, N.Y.
B.A., Skidmore, 1967
Lake, Alan Shanley Blackfoot, Idaho
B.A., Columbia, 1967
Lanning, Richard Cornforth Pittsburgh, Pa.
B.S., Stanford, 1967
Larsen, Gary Loy Wahoo, Neb.
B.S., Nebraska, 1967
Lazarus, George Mitchell Whitestone, N.Y.
B.A., Yale, 1967
Leavitt, Ronald Joel Great Neck, N.Y.
B.A., Brown, 1967
Lenke, Roger Rand Great Neck, N.Y.
B.A., Dartmouth, 1968
Levy, Mark Ivan West Hempstead, N.Y.
B.A., Columbia, 1967
Lincoln, Lawrence Jay Wilmington, Del.
B.S., Amherst, 1968
Logan, Bruce David Swampscott, Mass.
B.A., Colby, 1967
Lynch, Thomas John Hamilton, N.Y.
B.A., Colgate, 1967
Marshall, Robert Andrew Syracuse, N.Y.
B.A., Syracuse, 1967
Mayer, James William Santa Fe, N.M.
B.A., Colorado College, 1967
McCarthy, David Murray Madison, N.J.
B.A., Yale, 1967
McDougal, John Steven Grand Rapids, Mich.
B.A., Amherst, 1967
McNeil, George Neal, Jr. Weston, Mass.
B.A., Amherst, 1967
Meny, Robert George Fort Lauderdale, Fla.
B.S., Tulane, 1966
Migel, Peter Forshew Middlebury, Vt.
B.A., Middlebury, 1967
Miller, Zachary Ian New York, N.Y.
B.A., Brandeis, 1967
Mithen, Francis Andrew Wells, Me.
B.S., Tufts, 1967
Moskowitz, Reed Craig Donovan New York, N.Y.
B.A., Columbia, 1967
Moulton, Anthony LeRoy Limerick, Me.
B.A., Bowdoin, 1967
Mouradian, William Henry New York, N.Y.
B.S., Trinity, 1968
Neill, Mather Humphrey, Jr. Manchester, Conn.
B.A., Amherst, 1967
Newman, John Hughes Nashville, Tenn.
B.A., Harvard, 1967
Obedzinski, John Eugene Syracuse, N.Y.
B.A., Colgate, 1967
Oster, Martin William New York, N.Y.
B.A., Columbia, 1967
Owens, Henry Howard Atlanta, Ga.
B.A., Princeton, 1967
Padula, Joseph P. New York, N.Y.
B.A., Princeton, 1967
Palfrey, Judith S. Cambridge, Mass.
B.A., Radcliffe, 1967
Palmer, Henry Ricketts Chicago, Ill.
B.A., Oberlin, 1966
Parkins, George Kyle Eldon, Mo.
B.A., Westminster, 1967
Pendleton, Eugene Banks Atlanta, Ga.
B.S., Davidson, 1967
Pickering, Richard Stephen Kearny, Ariz.
B.A., Utah, 1967
Pierce, Donald Alfred Greenville, N.C.
B.S., Yale, 1967
Popik, William Colman Redwood City, Calif.
B.A., Yale, 1967
Prendergast, John Clemons, Jr. Poultney, Vt.
B.A., Williams, 1967
Rand, Lawrence Ira New York, N.Y.
B.A., Columbia, 1966

Ratzan, Richard Martyn New York, N.Y.
B.A., Trinity, 1967
Redmond, Geoffrey Plimsoll New York, N.Y.
B.A., Cornell, 1964
M.A., Virginia, 1965
Rochman, Steven D. New York, N.Y.
B.A., Columbia, 1967
Roberts, Thomas Luther, Jr. Fort Lauderdale, Fla.
B.A., Duke, 1967
Ruckert, Gustave Theodore, IV Rochester, N.Y.
B.S., Trinity, 1967
Sauvigne, Arthur Emile Mineola, N.Y.
B.A., Providence, 1967
Savidge, George Paul Blue Hill, Me.
B.A., Princeton, 1967
Scheinman, Richard Paul Bronx, N.Y.
B.A., Swarthmore, 1966
Schermerhorn, John Joseph Ridgefield Park, N.J.
B.S., Fairleigh Dickinson, 1967
Schoenfeldt, Richard Scott Vandenberg A.F.B., Calif.
B.A., Claremont Men's College, 1967
Schulze, Robert Allison, Jr. Wilmington, Del.
B.A., Hamilton, 1967
Searl, Steven Scott Pittsford, N.Y.
B.A., Amherst, 1967
Silverman, Ethel Martha Clifton, N.J.
B.A., Radcliffe, 1967
Slater, Eve Elizabeth Spring Lake, N.J.
B.A., Vassar, 1967
Smith, William McIntosh New York, N.Y.
B.A., College of Wooster, 1962
Soong, John Louis, Jr. Hong Kong, B.C.C.
B.A., Princeton, 1967
Southern, Darrell Loren Des Moines, Iowa
B.A., Iowa, 1967
Spellman, George Geneser, Jr. Sioux City, Iowa
B.A., Holy Cross, 1967
Sprenkle, Arthur Collin Canonsburg, Pa.
B.A., Columbia, 1967
Sprevack, Susan Gail New Rochelle, N.Y.
B.A., Skidmore, 1967
Stark, Raymond Irwin Denver, Colo.
B.A., Columbia, 1963
Stone, Charles Lynn, Jr. Cold Spring Harbor, N.Y.
B.A., Yale, 1965
Sturges, Stephen Patterson Omaha, Neb.
Triem, Frederick William Bethesda, Md.
B.S., Notre Dame, 1965
Ph.D., Catholic University, 1967
Tubridy, Frank Joseph Kearny, N.J.
B.A., Yale, 1966
Vaughan, James Edward Binghamton, N.Y.
B.A., Hamilton, 1967
Wall, Alexander James, III Sturbridge, Mass.
B.S., Union, 1967
Weber, Collin James Audubon, Iowa
B.A., Princeton, 1967
Welch, Martha Grace Rye, N.Y.
B.A., New York University, 1966
White, Benjamin Winthrop St. James, L.I., N.Y.
B.A., Harvard, 1967
Willsey, Carter Collins, Jr. Dayton, Ohio
B.A., Yale, 1967
Winkler, Daniel Cornell Camarillo, Calif.
B.A., Pomona, 1967
Wolcott, Patricia Lee Evanston, Ill.
B.A., Northwestern, 1967
Wood, Daniel Hopkins South Fort Mitchell, Ky.
B.A., Wesleyan, 1967
Zeller, Barbara Carol West Hartford, Conn.
B.A., Mount Holyoke, 1967

Class of 1972

Barkin, Neil Jay Great Neck, N.Y.
B.S., Union, 1968
Bell, Christopher Pember White Plains, N.Y.
B.A., Brown, 1967
Black, Thomas Jeffrey Kenton, Ohio
B.S., Michigan, 1968
Bogdasarian, Michael Alan Binghamton, N.Y.
B.A., Michigan, 1968
Boucher, Charles Allen Flushing, N.Y.
B.A., Cornell, 1968
Bower, James Stephen Madison, Wisc.
B.S., Harvard, 1968
Boxer, Robert Alan Metuchen, N.J.
B.A., Rutgers, 1968
Cabot, Anthony Pelham Manor, N.Y.
B.A., Hobart, 1968
Carlson, Robert Howard Montclair, N.J.
B.A., Columbia, 1968
Chan, Philip Oceanside, N.Y.
B.A., Harvard, 1968
Ciafone, Russell Anthony Huntington, N.Y.
B.A., Princeton, 1968

Creelman, Kevin Bremerton, Wash.
B.S., Washington, 1968
Curtis, David Lambert Salt Lake City, Utah
B.A., Colgate, 1968
Curtis, John Ashton Haverford, Pa.
B.A., Hamilton, 1968
Daines, Joseph Gordon, Jr. Boise, Idaho
B.S., Utah, 1968
Dann, Francis Joseph New York, N.Y.
B.A., Columbia, 1968
Davis, George Fabyan New York, N.Y.
B.A., Harvard, 1968
Dickens, Michael Douglas Atlanta, Ga.
B.A., Princeton, 1968
Dienstag, Jules Leonard Forest Hills, N.Y.
B.A., Columbia, 1968
Dresdale, Robert Jay Brooklyn, N.Y.
B.A., Brown, 1968
Durbin, William Applebee, Jr. Wabon, Mass.
B.A., Dartmouth, 1968
Edelman, Stuart Edward Flushing, N.Y.
B.S., Trinity, 1968
Eisenstein, Barry Ira Woodmere, N.Y.
B.A., Kenyon, 1968
English, Woodruff Jones, II Summit, N.J.
B.A., Princeton, 1968
Evans, Jonathan Lynn Pittsburgh, Pa.
B.S., Grove City, 1969
Faught, Raymond Edward, Jr. Clayton, Ala.
B.A., Harvard, 1968
Ferguson, Lucy Collins Cambridge, Mass.
B.A., Radcliffe, 1964
Finck, Arthur Donald Palisades, N.Y.
B.S., Lafayette, 1968
Fleming, Richard Elliot, Jr. Chatham, N.J.
B.A., Princeton, 1968
Foster, Catherine Mary Minneapolis, Minn.
B.A., Barnard, 1968
Foster, Craig Richard Wilton, Conn.
B.A., Yale, 1968
Frankel, Martin Jay Freeport, N.Y.
B.A., Columbia, 1968
Friedman, Peter Laurence Clayton, Mo.
B.S., Oberlin, 1968
Gessinger, John Robert Ridgewood, N.J.
B.A., Princeton, 1968
Ginsberg, Harry Michael Quincy, Mass.
B.A., Boston, 1968
Glasier, James Crocker Loudonville, N.Y.
B.A., Princeton, 1963
Green, Kenneth Richard Chestnut Hill, Mass.
B.A., Bowdoin, 1968
Greenberg, Robert Samuel Princeton, N.J.
B.A., Yale, 1968
Guinther, Jay Paul Cranford, N.J.
B.A., Wesleyan, 1968
Hadler, James Loggins Washington, D.C.
B.S., McGill, 1968
Hamilton, Robert Hepburn Grosse, Pointe, Mich.
B.S., Michigan, 1968
Hamilton, Ross Teen St. Albans, N.Y.
B.A., Syracuse, 1968
Hammer, Scott Mel New York, N.Y.
B.A., Columbia, 1968
Harrison, Edward Webb, Jr. Princeton, N.J.
B.A., Princeton, 1965
Hasselbacher, Peter Allendale, Camp Hill, Pa.
B.A., Wesleyan, 1968
Haupert, Garner Tripp, Jr. Medford, Ore.
B.A., Harvard, 1968
Hayward, Arthur D'Alanson Sikeston, Mo.
B.A., Yale, 1968
Hayward, Malcolm Lloyd, Jr. Rosemont, Pa.
B.A., Trinity, 1968
Henry, Douglas Charles Huntington, N.Y.
B.S., Muhlenberg, 1968
Hicks, John Trimmer Ann Arbor, Mich.
B.S., Michigan, 1968
Hillis, Leslie David Tyler, Tex.
B.A., Columbia, 1967
Horwitz, Marcus Aaron Elmira, N.Y.
B.S., Cornell, 1968
Huber, Philip Joseph, Jr. Royal Oak, Mich.
B.A., Yale, 1968
Johnson, Lawrence Bernard Camden, N.J.
B.A., Brown, 1968
Kasch, John Adkins Northbrook, Ill.
B.S., Duke, 1968
Kemeny, Mary Margaret Elizabeth, N.J.
B.A., Radcliffe, 1968
Kessler, Bruce Edward Northfield, Vt.
B.S., Tufts, 1968
Korn, Joseph Howard New York, N.Y.
B.S., City College (New York), 1968
Latting, Clifton Alonzo Chicago, Ill.
B.S., Columbia, 1968
Lau, William Kien Ki Honolulu, Hawaii
B.A., Hawaii, 1968
Leland, Anne Bronson New York, N.Y.
B.A., Radcliffe, 1968
Link, Arthur Stanley, Jr. Princeton, N.J.
B.S., Davidson, 1968
Lotz, Michael Jay New York, N.Y.
B.A., Columbia, 1968
Lovell, Charles Frederick, Jr. Pilot Mountain, N.C.
B.A., Harvard, 1968
Lowy, Franklin David New York, N.Y.
B.A., Columbia, 1968
Malitz, Alan Jeffrey Scarsdale, N.Y.
B.S., Bucknell, 1968

Martindale, Peter Craig Newtown Square, Pa.
B.A., Johns Hopkins, 1968
Mathers, James Alexander Lamond, Jr. Englewood, N.J.
B.A., Bowdoin, 1967
Mattison, Donald Roger Minneapolis, Minn.
B.A., Augsberg, 1966
M.S., Massachusetts Institute of Technology, 1968
Maulitz, Robert Marx Birmingham, Ala.
B.A., Harvard, 1968
Mayer, Thomas Roy Milwaukee, Wisc.
B.S., Wisconsin, 1968
McGreevy, Thomas Michael Vandalia, Ohio
B.S., Dayton, 1968
McGuire, Michael Francis St. Louis, Mo.
B.A., Columbia, 1968
McNeill, Douglas Hugh Briarcliff Manor, N.Y.
B.A., Hamilton, 1968
Menotti, Robert Amel Fayetteville, N.Y.
B.A., Syracuse, 1968
Mickell, John Joseph Peekskill, N.Y.
B.S., Manhattan, 1968
Miller, Wayne Alexander Homewood, Ill.
B.S., Michigan, 1968
Mintz, Jesse Michael West Hempstead, N.Y.
B.A., Rochester, 1968
Newmark, Michael Ede San Antonio, Tex.
B.A., Columbia, 1968
Newton, Leslie Stanz Wauwatosa, Wisc.
B.A., Yale, 1968
Norton, Larry Valley Stream, N.Y.
B.A., Rochester, 1968
Packard, William Michael Dansville, N.Y.
B.A., Hamilton, 1968
Pancoast, Stephen Joseph Manchester, N.H.
B.A., New Hampshire, 1968
Parmer, William Brent Great Neck, N.Y.
B.A., Columbia, 1968
Parry, Lynn Pasadena, Calif.
B.A., Vassar, 1966
Plakun, Eric Martin Laurelton, N.Y.
B.A., Hofstra, 1968
Porter, Robert Joseph, Jr. Rochester, N.Y.
B.A., Princeton, 1968
Prong, Linda Anne St. Paul, Minn.
B.A., Minnesota, 1968
Pynoos, Robert Sydney Los Angeles, Calif.
B.A., Harvard, 1968
Rau, Dean William Willmar, Minn.
B.A., Harvard, 1968
Reeves, Glen Irving Weiser, Idaho
B.A., Columbia, 1968
Reiffel, Robert Siskind Scarsdale, N.Y.
B.A., Yale, 1968
Resor, Stanley Rogers, Jr. Washington, D.C.
B.A., Yale, 1967
Robinson, Harry John, Jr. Short Hills, N.J.
B.S., Bucknell, 1968
Romney, Benjamin Mayer Mamaroneck, N.Y.
B.A., Dartmouth, 1969
Rousell, Charles Hiebert Buhler, Kans.
B.A., Harvard, 1968
Ryder, Robert Winsor Winchester, Mass.
B.A., Middlebury, 1968
Sacks, Linda Mann Philadelphia, Pa.
B.A., Pennsylvania, 1968
Schoene, Robert Brown Columbus, Ohio
B.A., Princeton, 1968
Scotton, Bruce Warren Urbana, Ill.
B.S., Illinois, 1968
Seale, William Boyer Port Arthur, Tex.
B.A., Colorado College, 1968
Sedlacek, Keith Wayne Valley Forge, Pa.
B.A., Harvard, 1966
Seplowitz, Alen Harvey Bronx, N.Y.
B.A., Columbia, 1968
Severinghaus, John Merrill Scarsdale, N.Y.
B.A., Princeton, 1968
Shaw, Peter K. Shaker Heights, Ohio
B.S., Muhlenberg, 1968
Shiftan, Thomas Andre Scarsdale, N.Y.
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Sigmond, Mark Bevers Northbrook, Ill.
B.A., Yale, 1968
Singer, Alfred Port Jervis, N.Y.
B.S., Massachusetts Institute of Technology, 1968
Slate, Jerome Lawrence Quincy, Mass.
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Slutsky, Lawrence Joel Bayside, N.Y.
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Snell, Sarah Fonda Rochester, N.Y.
B.A., Wellesley, 1968
Southwick, Frederick Seacrest New Haven, Conn.
B.A., Yale, 1968
Spear, Susan Manhasset, N.Y.
B.A., Wellesley, 1968
Stanton, Robert Alan Great Neck, N.Y.
B.A., Williams, 1968
Stelzer, Paul Edward Elk Creek, Neb.
B.A., Abilene Christian, 1968
Stoeckle, David Bruce Darien, Conn.
B.A., Amherst, 1968
Stone, Richard Alan Newtown Centre, Mass.
B.A., Harvard, 1968
Straus, Stephen Ezra Brooklyn, N.Y.
B.S., Massachusetts Institute of Technology, 1968

Sutphen, James Leonard Newark, Ohio
B.A., Wesleyan, 1968
Taylor, Steven James Ogden, Utah
B.A., Columbia, 1968
Tomecki, Kenneth Joseph Brooklyn, N.Y.
B.A., Columbia, 1968
Van der Ziel, Cornelia H. J. Minneapolis, Minn.
B.A., Radcliffe, 1968
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B.A., Wesleyan, 1968
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B.A., Mount Holyoke, 1967
Weeks, Lionel Edwards, III Rockville Centre, N.Y.
B.A., Williams, 1968
Weininger, Richard B. Whitestone, N.Y.
B.S., City College (New York), 1966
Weis, Lawrence David Prospect, Ky.
B.A., Wesleyan, 1968
West, Robert Bernard Chappaqua, N.Y.
B.A., Princeton, 1968
White, Phyllis Jeanne Bronxville, N.Y.
B.A., Manhattanville, 1968
Woodward, Randolph Craig Baltimore, Md.
B.A., Yale, 1967

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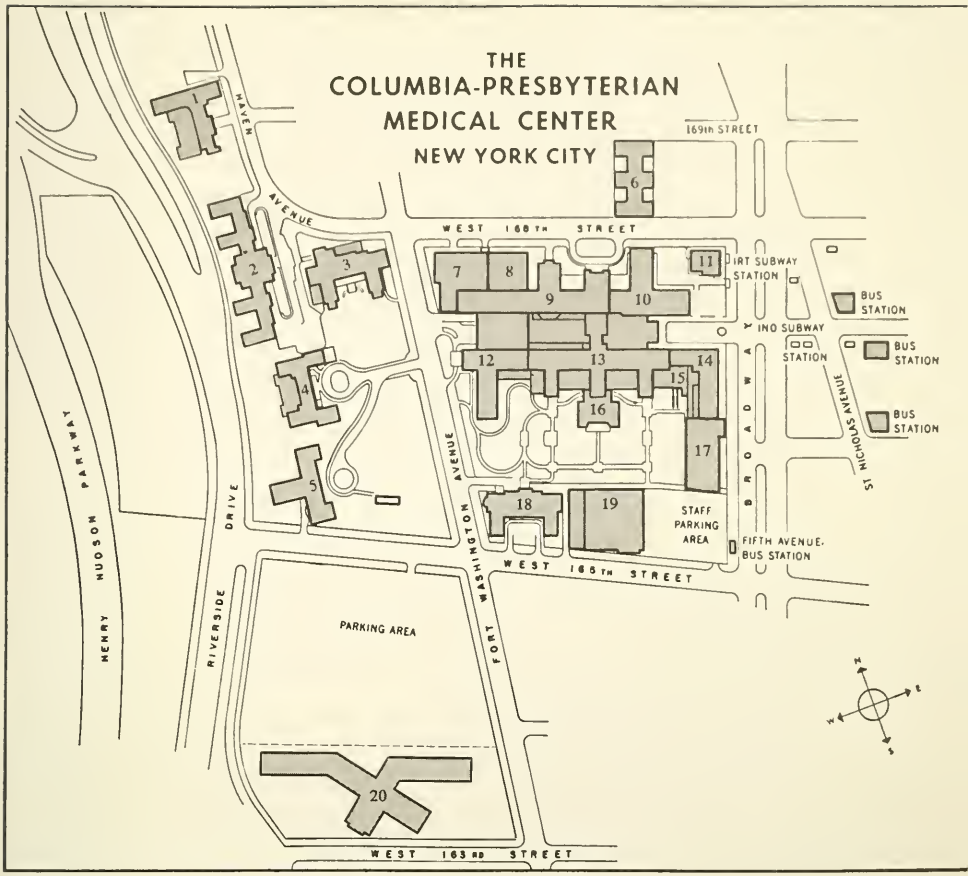

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Columbia University Bulletin

THE FACULTY OF MEDICINE

College of Physicians & Surgeons

1969–1970

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630 WEST 168TH STREET
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The Faculty of Medicine of Columbia University

College of Physicians & Surgeons

1969-1970

Andrew W. Cordier, Ph.D., LL.D., L.H.D., D.P.S. *President of the University*

Polykarp Kusch, Ph.D., Sc.D. *Vice President and Dean of Faculties of the University*

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Academic Calendar, 1969-1970

May	15–16	Thursday–Friday. Registration, including payment of fees, for third- and fourth-year classes.
June	1	**Sunday. Academic year begins for the fourth-year class.**
	9	**Monday. Academic year begins for the third-year class.**
Aug	1	Friday. Last day to apply or reapply for all degrees and certificates to be conferred in October. Students who apply after this date must pay a late fee.
Sept	11–13	Thursday–Saturday. Registration, including payment of fees, for first- and second-year classes.
	15	**Monday. Classes begin for first- and second-year classes.**
Oct	1	Wednesday. Last day to file dissertations for the Med.Sc.D. degree to be awarded in October.
Nov	4	Tuesday. Election Day. Holiday.
	27–29	**Thursday–Saturday. Thanksgiving holidays.**
Dec	2	Tuesday. Last day to apply or reapply for all degrees and certificates to be awarded in February. Students who apply after this date must pay a late fee.
	22	**Monday, through January 3, 1970, Saturday. Christmas holidays.**
Jan	30	Friday. Last day to apply for Cutting and Ellis Fellowships.
Feb	23	Monday. Washington's Birthday. Holiday.
	28	Saturday. Last day to apply or reapply for all degrees and certificates to be conferred in June. Students who apply after this date must pay a late fee.
Mar	23–28	**Monday–Saturday. Easter holidays.**
May	1	Friday. Last day to file dissertations for the Med.Sc.D. degree to be conferred in June.
	30	Saturday. Memorial Day. Holiday.
June	2	**Tuesday. Conferring of degrees.**

The Faculty of Medicine

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View of Bard Hall from Riverside Drive

Columbia-Presbyterian Medical Center

The College of Physicians and Surgeons

The College of Physicians and Surgeons is guided by the principle that medical education is university education—the creation of an atmosphere in which ideas grow and minds are disciplined. The acquisition of knowledge and skills is important in professional education, but far more vital is a profound understanding of the science, the art, and the ethic within which both knowledge and skill are applied. As a part of Columbia University, the College builds its curriculum, selects its officers of instruction, and marshals its enormous resources of equipment and clinical experience to develop in the student this understanding of medicine. Within the curriculum for the M.D. degree is the fundamental knowledge upon which later specialization is built, and from which the natural bent is discovered toward general or special practice, or toward research, teaching, or administration. The postgraduate programs of the College provide training in the specialties, help the graduate physician to keep abreast of new knowledge, and support the research from which this knowledge develops.

HISTORY OF THE COLLEGE AND THE UNIVERSITY

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The American Revolution interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine in course. The first graduates in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May 1769 and that of Doctor of Medicine in May 1770 and May 1771, respectively. Instruction in medicine was given until interrupted by the Revolution and the occupation of New York by the British, which lasted until November 25, 1783. In 1784 instruction was resumed in the academic department, and in December of the same year the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; from that time on the diplomas of the graduates were signed by the President of Columbia College as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the college was incorporated as an integral part of the University. Since September 1917 women have been admitted to the College on the same basis as men.

Columbia-Presbyterian Medical Center

The Medical Center was opened in the spring of 1928, seven years after the establishment of a permanent affiliation between Columbia University and the Presbyterian Hospital. It consists of the following units: the divisions of the University Faculty of Medicine (the College of Physicians and Surgeons, the Department of Nursing, the School of Public Health and Administrative Medicine); the University School of Dental and Oral Surgery; the Presbyterian Hospital and its subdivisions; the New York State Psychiatric Institute; Francis Delafield Hospital; and the Washington Heights Health and Teaching Center.

The Medical Center occupies a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. It comprises about twenty acres extending from West 165th Street to West 168th Street and from Broadway to Riverside Drive, and is readily accessible from all parts of the city. A map of the Medical Center is given on the inside back cover.

The College of Physicians and Surgeons is at 630 West 168th Street between Broadway and Fort Washington Avenue in a seventeen-story, fire-resisting, steel, brick, and concrete building, each floor of which connects with the wards and services of the Presbyterian Hospital.

THE PRESBYTERIAN HOSPITAL

Founded in 1868, the hospital now occupies a twenty-two-story building in which are the wards of the medical and surgical services, the Sloane Hospital for Women, and the Squier Urological Clinic. To provide for personal contact between doctor and patient, the hospital is divided into floor units of between 60 and 70 beds. Harkness Pavilion for private patients is connected with the main building. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the Hospital on nomination by the Trustees of the University. There are 1,537 beds.

Presbyterian Hospital has the following subdivisions:

Squier Urological Clinic occupies the tenth floor of the Presbyterian Hospital building and the tenth floor of Babies Hospital. There are 67 beds for the care of adults and 20 beds for babies and children. There are laboratories fully equipped to do diagnostic, x-ray, microbiological, pathological, fluoroscopic, and research work. The clinic has two large, specially equipped operating rooms. The urological outpatient department, situated in Vanderbilt Clinic, is fully equipped for cystoscopic, x-ray, and laboratory work.

The Institute of Ophthalmology was made possible by the generosity of Edward S. Harkness. The hospital and laboratories for the study of diseases of the eye are active in the training of physicians and nurses. The hospital contains 28 ward beds.

Harkness Pavilion, which contains 299 beds, is available for the accommodation of private patients of the attending staff.

Sloane Hospital for Women, originally at West 59th Street and Amsterdam Avenue, was presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now occupies three floors of the Presbyterian Hospital building for ward and semiprivate patients and two floors of the Harkness Pavilion for private patients. The wards of the hospital furnish 118 beds for obstetrical and gynecological patients. Patients, other than emergencies, are admitted to the hospital through Vanderbilt Clinic. The deliveries in the hospital number about 3,500 a year.

Vanderbilt Clinic, presented by the Vanderbilt family to Columbia University in 1888, is the outpatient department common to all the hospitals in the Medical Center. It is a fully equipped dispensary for the economically less privileged. The professors of the College, with their assistants, have charge of its professional services. The building is so arranged that each department has rooms for practical instruction in small sections. All modern appliances for the treatment of disease are available, so that the students can learn thoroughly the use of all methods in each of the special departments of medicine. A Group Clinic, which was organized in Vanderbilt Clinic in 1946, has proved to be a forward step in the treatment of patients as well as of great value in the teaching of fourth-year medical students.

Babies Hospital provides for general medical and surgical care of infants and children up to and including twelve years of age. One floor of the hospital is devoted to the care of private and semiprivate patients. Three floors are equipped with laboratories. Both outdoor and indoor playrooms are provided for convalescent children. The total capacity of the hospital is 198 beds. Laboratories are operated for the routine and research work of the hospital in pathology, microbiology, and chemistry. An outpatient department is maintained in Vanderbilt Clinic by the visiting and house staff of the hospital. In addition to the general medical and surgical clinics, there are special clinics for the care of premature infants and for patients suffering from heart disease, tuberculosis, epilepsy, asthma, and other disorders.

Neurological Institute, one of the first nongovernmental hospitals in this country for the treatment of nervous diseases, was founded in 1909. The original building at 149 East 67th Street was occupied continuously up to March 1929, when the Institute was moved to the Medical Center. This move has made possible the development of a broad basic program of teaching and research in neurology and in the treatment of the sick in the affiliated units of the Medical Center. The present hospital has 98 ward beds and is devoted exclusively to the treatment of diseases of the nervous system and surgical conditions of the brain and nervous system. Facilities are provided for bedside teaching in the wards for both undergraduate and graduate students.

New York Orthopaedic Hospital, established in 1868, was consolidated with the

Presbyterian Hospital in 1945. It was moved to the Columbia-Presbyterian Medical Center in December 1950 and is now an integral part of the Presbyterian Hospital and the College. It has 67 ward beds. Facilities are available for the care and treatment of orthopedic conditions and fractures in children and adults. Teaching laboratories are provided in the College.

NEW YORK STATE PSYCHIATRIC INSTITUTE

A 174-bed hospital built and maintained by the state of New York, the Institute provides for the study and treatment of all types of psychiatric disorders. There are special facilities for the treatment of children presenting behavior and personality problems. Connected with the hospital is an active outpatient department providing diagnostic and treatment facilities. The hospital maintains special clinical and research laboratories and an extensive psychiatric library. The members of the hospital staff have teaching appointments in the Department of Psychiatry and take an active part in the instruction of the medical students.

FRANCIS DELAFIELD HOSPITAL

The Delafield Hospital, built and maintained by the City of New York, is a 261-bed limited general hospital with emphasis on the treatment and study of cancer. A program of research and of graduate and undergraduate instruction in the malignant diseases is conducted here under the terms of an agreement with the city of New York whereby Columbia University nominates the entire professional staff. The hospital is equipped with three floors of laboratories for research and has a modern outpatient department and up-to-date facilities for all methods of study and treatment of cancer.

OTHER HOSPITALS USED FOR TEACHING

Mary Imogene Bassett Hospital, in Cooperstown, New York, is affiliated with the University for the teaching of medicine and surgery. It has 96 beds.

Harlem Hospital, in the Department of Hospitals of New York City, was founded in 1887. It has 873 beds. The facilities are used for the special teaching of residents and students.

Roosevelt Hospital, established in 1864, is a general hospital containing 558 beds. Its facilities are used in the teaching of medicine and surgery to undergraduate and postgraduate students.

St. Luke's Hospital, established in 1850, contains 718 beds, including 45 beds for children. It is affiliated with the University for the teaching of undergraduates, and all services participate in the program of graduate medical education.

MEDICAL LIBRARY

The Medical Library occupies parts of the three lower floors of the College building. It provides current literature (both books and journals) for faculty and

students, and it aids in research through its own collections of current and historical works, through interlibrary loans, and through its unique bibliographic service.

The library contains approximately 285,000 volumes of books and journals, some 5,000 pamphlets, and about 2,000 lantern slides on the history of medicine. More than 4,500 periodicals are received regularly. A professional library staff is available to aid students, faculty members, and research workers in the schools and hospitals of the Medical Center.

The libraries on the Morningside campus, which contain over 3,700,000 volumes, are open to all students. They include collections on biology, chemistry, physics, psychology, sociology, and other subjects related to medicine and supplement the special collections available in the Medical Library. Books and journals may be borrowed for home use. The main collection is housed in Butler Library, while special and departmental collections are located in various other buildings on the campus.

The Medical Library is open Monday through Friday, from 8:30 a.m. to 11 p.m.; Saturday, from 9 a.m. to 5 p.m.; and Sunday, from 12 noon to 10 p.m. during the academic year. All other libraries post their hours.

BARD HALL

Bard Hall, at 50 Haven Avenue overlooking Riverside Park and the Hudson River, is the residence for men and women students of the College. Its facilities include lounges, a cafeteria and several dining rooms, and a gymnasium with facilities for swimming, basketball, squash, and other sports.

The Program of Instruction

The objective of the recently revised program is to provide students with an environment in which they can develop a sense of responsibility for their continuing education. In addition to learning the basic skills essential to the modern physician-scientist, time is designated to allow full development of each individual's special talents and needs. Curricular flexibility, the methods by which medical knowledge is acquired and evaluated, an early exposure to clinical material through demonstrations and correlation clinics, and greater use of small group teaching are among the program changes which have received special emphasis.

The first year is devoted to basic science courses with frequent correlation clinics intended as a vehicle by which basic science material may be related to medical problems. Following the summer vacation, basic science courses are continued for one semester of the second year with the addition of interdepartmental courses in abnormal human biology and in an introduction to the evaluation of patients and their problems.

The next full year, the major clinical year, is applied exclusively to a rotation of clerkships in the clinical disciplines. Under close supervision, the student is helped to develop attitudes, skills, knowledge, and habits applicable to a wide variety of clinical disorders. The primary educational aims are to help the student to elicit an accurate and comprehensive history, to carry out complete and thorough physical examinations, to develop and understanding of the mechanisms involved and the various ways in which common patterns of disease affect the human being, to learn the principles necessary to reach valid clinical and diagnostic appraisals and effective therapeutic plans, and to acquire consideration and perceptiveness in the handling of patients.

The final semesters, with the inclusion of some vacation periods, are devoted primarily to clinical and basic science electives. These are arranged individually, and with flexibility, so as to prepare students to meet a variety of needs and goals, and to permit the use of the resources of the entire University, of affiliated hospitals as well as of programs elsewhere. Combined programs, courses in multiple disciplines, advanced clinical clerkships, and research are all possible during this period.

In addition, the regular program may be interrupted to permit up to a full year of research, for which fellowships are available.

RESEARCH OPPORTUNITIES

The importance of clinical and laboratory investigation by the student is stressed. Students are encouraged to engage in some definite research project during their elective year, or may arrange a full year on their original investigation rather than proceed with the next regularly assigned academic year. Stipends are available for research fellowships of this kind.

MEDICAL SCIENTIST TRAINING PROGRAM

Application to this program is open to a limited number of students after acceptance to medical school or following the completion of their early years of study. This program is designed for those interested in an eventual career in academic medicine, teaching, and research. The curriculum includes all the essential courses leading to the M.D. degree, modified to special needs, as well as special courses and seminars in basic and clinical sciences. Usually after the basic science period, each student is expected to spend two years in study and research in his chosen field. Faculty advisers are assigned to the students. A flexible program of financial support is provided.

► COURSES OF INSTRUCTION AND RESEARCH

For purposes of instruction, the basic science years are divided into semesters, the major clinical year into quarters, and the elective period into months.

All students who are not regularly matriculated for the degree of Doctor of Medicine must obtain the permission of the instructor in charge before registering for any course. Only a small number of doctoral candidates are accepted because of limitations in space and facilities.

The College reserves the right to make changes in the program of studies and courses of instruction at any time.

GRADES AND PROMOTION

The following grade equivalents are used: A, excellent; B, good; C, fair; F, unsatisfactory.

A student may be advanced to the next academic year of the medical course or be allowed to repeat a year only upon the recommendation of the faculty members under which he studied during the previous year. Students are classified under the following headings: (1) recommended for advancement; (2) recommended for readmission to the same class; (3) recommended for neither advancement nor readmission. The Faculty of Medicine reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited for study in the College.

KEY TO COURSE NUMBERS

Medical Center courses: The suffixes F, S, and T refer to the three semesters of the basic science period.

Numbers with no suffix indicate courses of the major clinical year covering a period of twelve weeks or less and being repeated to multiple-class groups.

BASIC SCIENCE (THREE SEMESTERS)

The second year class, during the year 1969–1970, will be subject to a two-semester modification of courses representing a transitional phase between the previous and the revised curricula.

Anatomy 101F. Microscopic anatomy, human anatomy, and embryology
The departmental staff.

Anatomy 102S. The structure and function of the nervous system
Professors Carpenter and Noback (*Anatomy*).
Lectures, demonstrations, and laboratory.

Biochemistry 101F. Introductory biochemistry
The departmental staff.

Genetics 101T.
Professor Marks and associates.

Medicine 101FS. Correlation clinics
Professors Taggart and Herter.
Series of clinics illustrating the application of basic science to the understanding of disease mechanisms.

Medicine 102T. Introduction to the patient
Professor Aranow and associates.
Includes physical diagnosis as well as patient approach.

Medicine 103T. Abnormal human biology
Professor Rifkind and interdepartmental associates.
An integrated approach to human pathophysiology; clinical pathology and clinical microscopy are included.

Microbiology 101ST. General medical microbiology and immunology
The departmental staff.

Pathology 101ST. General and special pathology and neuropathology
Professor King and the departmental staff.

Pharmacology 101S. General and special pharmacology
The departmental staff.

Physiology 101F. Human physiology
The departmental staff.

Psychiatry 101FS. Human behavior
Professors Michels, Dohrenwend, Sours, and Wilkie.

Psychiatry 102T. Psychiatric preceptorship
Professors Frazier, Carr, and Kornfeld.

Public Health 101S. Parasitic diseases
Professor Brown and staff.
The protozoa, helminths, and arthropods of medical significance.

MAJOR CLINICAL YEAR

Anesthesiology 201. Practical anesthesiology and seminars
Professor Papper and staff.

Dermatology 201. Dermatology and syphilology
Professors Sanders and Nelson, and staff.

Medicine 201. Ward clinical clerkship in medicine
Professor Tapley (*in charge*) and staff.

Neurology 201. Ward clinical clerkship in neurology
Professor Masland and the staff at the Neurological Institute.

Neurology 202. Neurosurgery
Professor Pool.
Included in neurology clerkship.

Obstetrics and Gynecology 201. Clinical clerkship in theory and practice of obstetrics and gynecology
The departmental staff.
Includes anatomy and physiology of the pelvic organs, pregnancy and the mechanisms of normal labor, complications of pregnancy, and the diagnosis and management of gynecological disorders.

Ophthalmology 201. Practical instruction in ophthalmology
The departmental staff. At Vanderbilt Clinic and the Institute of Ophthalmology.

Orthopedic Surgery 201. Practical instruction in orthopedics, including fractures and dislocations
Professor Stinchfield and staff.

Otolaryngology 201. Practical instruction in the diseases of the ear, nose, and throat
Professor Baker and staff. At Vanderbilt Clinic.

Pediatrics 201. Introduction to pediatrics: clinical clerkship
Professor Curnen and staff. At Babies Hospital.
Includes the study of diseases of infants and children; their growth and development and maintenance of their health.

Psychiatry 201. Clerkship in psychiatry
Professors Dunton, Kesselbrenner, Langford, MacKinnon, and Michels; Dr. Druss and the clinical faculty. At New York State Psychiatric Institute and Presbyterian Hospital.

Public Health 201. Preventive and administrative medicine, forensic medicine and medical jurisprudence, and community medicine
The departmental staff.

Radiology 201. Diagnostic radiology (medical)
Professor Seaman and staff.

Radiology 202. Diagnostic radiology (surgical)
Professor Seaman and staff.

Rehabilitation Medicine 201.
Professor Darling and staff.

Surgery 201. Clinical clerkship in surgery
Professor Herter and staff.

Surgery 202. Lectures and demonstrations in surgical pathology
Professor Lattes and staff.

Urology 201. Practical instruction in urology
Professor Lattimer and staff.

ELECTIVE YEAR

A wide selection is possible in virtually every department, on the University campus and elsewhere, in any of the following categories: combined basic science-clinical electives, advanced clerkships, additional clinical electives, courses in a variety of disciplines, and research programs. An elective in medicine in the tropics is available to fourth-year students who serve for two months in hospitals in Bolivia, Liberia, Nigeria, Surinam, and Taiwan. A few electives of special interest are listed below:

Genetics 301. Laboratory in genetics and developmental biology
Professors Marks, Spiegelman, and Rifkind; and associates. Four or more consecutive months.
Prerequisite: departmental approval.
Project-oriented laboratory course to provide selective experience with contemporary techniques in genetic and developmental biology. Projects illustrate genetics mapping, analysis of biochemical pathways of mutations, cytogenetics, biochemical and morphogenetic approach to mammalian cell differentiation employing tissue culture, electron microscopy, and metabolic techniques.

Genetics 302. Seminar in genetics and developmental biology
Professors Marks, Spiegelman, and Rifkind; and associates. Autumn semester. M 12–1.
Prerequisite: departmental approval.
Guided reading and discussions in nucleic acid chemistry, structure and function, molecular genetics and ultrastructure of genetic material, control mechanisms in genetic expression and cellular differentiation, and problems in mammalian embryogenesis and oncology.

Medicine 301. Combined staff clinics
The departmental staff.
Weekly exercises open to the entire student body and faculty during all but the summer semesters.

Medicine 302. Outpatient clinical clerkships (Group Clinic and Harkness Pavilion)
Professor Lamb (*in charge*). Two months.

Medicine 303. Clinical clerkships on the wards at Harlem Hospital and Francis Delafield Hospital
Professor Ragan and associates (*Harlem*); Professor Curran and associates (*Delafield*). Two months.

Medicine 304. Affiliated hospital clerkships in medicine at Mary Imogene Bassett Hospital, Roosevelt Hospital, or St. Luke's Hospital
Members of the departmental staff. One or two months.

Medicine 305. History of medicine

Professors Richards and Cournand. Second, third or fourth years. Tuesdays, 7–8 p.m.: six sessions, Oct 14–Nov 18; six sessions, Jan 13–Feb 17. Second, third, or fourth year.

Selected topics.
Limited to 25 students.

Medicine 306. Medical therapeutics and applied pharmacology

Professors Southworth (*in charge*) and Hoffman. Third and fourth years.

Two-year sequence of sixteen lectures.

Medicine 307. Seminar in experimental hematology

Professors Marks, Rifkind, Nossel, and Bank; and associates. Spring semester. M 12–1.

Prerequisite: *Medicine 103T* and departmental approval.
Guided reading and discussion on molecular, developmental, and populational biology of selected experimental and clinical problems drawn from hematological research, including genetics of hematopoietic defects, embryology of the hematopoietic systems, genetic polymorphism in hemoglobin and enzymes, thalassemia, leukemia, and coagulopathies.

Medicine 308. Clinical hematology

Professor Marks and associates. One or two months.

Prerequisite: *Medicine 103T* and departmental approval.
Recommended preparation: participation in *Medicine 307*.
Advanced clinical experience, with emphasis on patient consultation, bone marrow morphology, hematologic laboratory diagnosis, coagulation, and hematological oncology.

Psychiatry 301. Clinical psychiatry: principles and practice of psychotherapy for medicine (Required: fourth year)

Professors Papanek and Califano, and staff. Three hours weekly for one month.

Demonstration of short-term psychotherapy using closed-circuit television, psychiatric problems in clinic patients, and individual patient consultations.

Surgery 301. Clinical clerkships in surgery

Professor Herter and the departmental staff. Two months. At Mary Imogene Bassett, Francis Delafield, Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.

► SUMMARY OF STUDIES (IN HOURS)

BASIC SCIENCE

	HOURS		HOURS
Anatomy 101F	257	Pathology 101ST	182
Anatomy 102S	76	Pharmacology 101S	102
Biochemistry 101F	128	Physiology 101F	117
Genetics 101T	24	Psychiatry 101FS	42
Medicine 101FS	31	Psychiatry 102T	42
Medicine 102T	187	Public Health 101S	39
Medicine 103T	136	TOTAL	1,489
Microbiology 101ST	126		

MAJOR CLINICAL YEAR

	HOURS		HOURS
Anesthesiology 201	64	Psychiatry 201	85
Dermatology 201	17	Public Health 201	65
Medicine 201	330	Radiology 201	11
Neurology 201-202	192	Radiology 202	11
Obstetrics and Gynecology 201	192	Rehabilitation Medicine 201	10
Ophthalmology 201	18	Surgery 201	160
Orthopedic Surgery 201	64	Surgery 202	20
Otolaryngology 201	18	Urology 201	64
Pediatrics 201	192	TOTAL	1,513

► SPECIAL PROGRAMS

PROGRAMS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

A student may plan a combined program leading to the award of both the M.D. and the Ph.D. degrees. He may begin such a program either in the College or under the Faculty of Pure Science, but he may not be registered in the two faculties concurrently. It is usually to his advantage to complete the requirements for the M.D. degree first, since some of the required medical courses and elective research opportunities may be credited toward the Ph.D. degree. A student interested in a combined program should consult the chairman of the basic science department in which he plans to major and the Associate Dean of the Faculty of Medicine.

A limited number of students may be accepted in the basic science departments of the College—Anatomy, Biochemistry, Microbiology, Pathology, Pharmacology, and Physiology—and in the Subcommittee on Biophysics (see below). Because of limited facilities only candidates for the Ph.D. degree are accepted. Work toward the degree in the basic science departments is under the jurisdiction of the Faculty of Pure Science of the University and must receive approval by the departmental chairman concerned. Admission and degree requirements and courses of instruction are given in the bulletin of the Graduate Faculties.

RESEARCH IN RESIDENCE

A graduate student who wishes to engage in special clinical or investigative work under the direction of a department may, with the approval of the Dean, register for research in residence (see the schedule of fees).

CURRICULA IN PHYSICAL THERAPY AND OCCUPATIONAL THERAPY

Educational programs leading to the Bachelor of Science degree in occupational therapy or physical therapy are offered by the Department of Rehabilitation Medicine to students with a background of two years of college; the programs are approximately two years in length. Students who have already earned a baccalaureate

degree may apply for admission to a one-year program leading to a professional certificate in physical therapy or to a two-year program leading to a Master of Science degree in occupational therapy. Details are given in the University bulletin *Courses in Physical Therapy and Occupational Therapy*.

PROGRAM OF THE PSYCHOANALYTIC CLINIC

A course of training in the theory and practice of psychoanalytic medicine is offered through the Psychoanalytic Clinic for Training and Research of the Department of Psychiatry. The program, a minimum of four years in length, leads to the award of a Certificate in Psychoanalysis. For details, see the bulletin of the Psychoanalytic Clinic.

Physicians participating in this training program who wish to be considered for acceptance as candidates for the degree of Doctor of Medical Science may request further information from the Office of the Dean of the Faculty of Medicine.

PROGRAM IN RADIOLOGICAL PHYSICS

A student who holds a bachelor's degree or the equivalent with a major or a strong minor in physics may be eligible for admission to the full-time, integrated course in radiological physics leading to the award of the Master of Science degree. The course, which is given throughout the academic year, consists of lectures, seminars, conferences, and laboratory work designed to prepare the student to carry out all the functions of a physicist in a hospital department of radiology or to engage in applied or theoretical research. The class is limited to six students. Further information may be obtained from the office of the Department of Radiology.

PROGRAM IN BIOPHYSICS AND BIOPHYSICAL CHEMISTRY

The program of study in biophysics and biophysical chemistry, which leads to the award of the degree of Doctor of Philosophy, is under the jurisdiction of the Graduate Faculties. Information about admission and degree requirements and courses of instruction is given in the bulletin of the Graduate Faculties.

The Postgraduate Program

Opportunities for medical training beyond the M.D. degree are offered at Columbia University through three major programs: (1) the training of specialists by means of hospital residencies; (2) the Doctor of Medical Science program, for physicians with particular interest and competence in research in the basic sciences; and (3) special courses in general medicine and in the specialties, for practicing physicians and physicians in training who wish to renew and continue their educational experiences in the various fields of medicine. Further information about these programs may be obtained from the Office of the Dean of the Faculty of Medicine.

TRAINING OF SPECIALISTS

The program offers training opportunities through fellowships at the College of Physicians and Surgeons and residencies at affiliated hospitals for holders of the M.D. degree who have completed hospital internships. Proper training for specialization includes three major elements: First, it provides a comprehensive clinical experience as a resident in a hospital that is equipped and staffed to provide graded responsibilities under the supervision of experts in the selected specialty. Second, it disciplines the resident in scientific attitudes toward health and disease and enriches his clinical experience through advanced training in those medical sciences that are largely concerned with his specialty. Finally, it gives the student the opportunity, either as a resident or as a fellow, to do basic or clinical research. This in turn may stimulate the type of creative productivity that may earn him a recommendation that he be admitted to a program leading to the award of the Doctor of Medical Science degree.

PROGRAM FOR THE DOCTOR OF MEDICAL SCIENCE DEGREE

The University confers the Med.Sc.D. degree upon a few physicians who have completed a research project in one of the basic science fields. Only staff members of the Columbia-Presbyterian Medical Center are eligible for this degree. A minimum of one year of full-time work in the basic science field is required. Additional requirements include completion of a significant and original research project, the passing of a comprehensive and an oral examination, and submission of a dissertation.

COURSES FOR PRACTICING PHYSICIANS AND SPECIALISTS

A variety of short courses have been organized at hospitals and clinics affiliated with the University; they are available at the Columbia-Presbyterian Medical Center, St. Luke's Hospital, Brookdale Hospital Center, and Harlem Hospital. No University credit or certificates are granted for these courses.

Courses for the general practitioner furnish opportunities for him to keep abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention; and to learn the indications, limitations, and value of those technical procedures which require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, demonstrations, and discussion.

For those already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is limited to those who have the preparation necessary to enable them to benefit by the advanced instruction.

INSTITUTE OF CANCER RESEARCH

The Institute of Cancer Research of the Columbia University College of Physicians and Surgeons was established in 1909 with funds bequeathed to the University by George Crocker. It moved from its original quarters on 116th Street to the College of Physicians and Surgeons in 1938. The Francis Delafield Hospital later became the center of clinical and experimental cancer research at P&S. In 1967 a five-story research wing was added to the Delafield Hospital enabling the consolidation of all the laboratories of the Institute in one building. These laboratories now provide the means for extensive investigations of many aspects of cancer and for the postgraduate training of scientists in this field.

INTERNATIONAL INSTITUTE FOR THE STUDY OF HUMAN REPRODUCTION

The International Institute for the Study of Human Reproduction was founded in 1965 with a grant from the Ford Foundation, later supplemented by one from the Rockefeller Foundation. Its primary purpose is to do research in the fields of biology, clinical investigation, and the social sciences relevant to the solution of the world population problem. A parallel objective is to study the many complications of the reproductive process affecting human welfare, such as infertility, endocrine disorders, out-of-wedlock pregnancy, marital and other social problems. The Institute is now operating with four divisions: (1) biology and biochemistry, (2) clinical investigation, (3) demography, and (4) development and evaluation of family planning programs throughout the world.

The activities of the Institute are still scattered in a number of small quarters: on the top of the Black Research Building, in various laboratories, and in a number of rented apartments in the neighborhood of the Medical Center. However, a site for the new Institute building has been purchased on the southeast corner of Broadway and 168th Street.

An important addition to the facilities of the Institute has been an agreement signed in the last year whereby the Margaret Sanger Research Bureau will join the Institute as its clinical division. This union will bring to the Institute not only a historic tradition, but experienced staff members and an unusual clinical clientele.

Admission, Registration and Expenses

Entering classes are enrolled in the College once each year in September. The minimum requirement for admission is attendance for three full academic years at an approved college of arts and sciences, although most applicants present four academic years and a bachelor's degree. The Committee on Admissions gives priority to the more advanced students.

The college program must have included English, physics, biology, general chemistry, and organic chemistry (including laboratory), covering at least one academic year each. Additional background in advanced mathematics and chemistry, and in genetics and embryology, may be useful but is not required. The student may have concentrated on any subject—in the natural sciences, social sciences, humanities, or arts—but evidence of a balanced education, as well as demonstrated interest and ability in the natural sciences, is preferred.

APPLICATION PROCEDURE

Application for admission must be filed on a special form which may be obtained from the Office of the Dean of the Faculty of Medicine. Applications are accepted only for the next incoming class; requests for application forms may be submitted one year in advance of registration. The completed form must be accompanied by the application fee of $20. The fee helps to cover the cost of processing the application; it is therefore not returnable and is not credited toward tuition.

If a personal interview is required in connection with the application, it will be requested by the Dean's Office.

SELECTION OF STUDENTS

The Committee on Admissions devotes months to the task of selecting a class of one hundred and thirty-two from a very large number of applicants. Obviously there will be many well-qualified students whom the College will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation and to the world as well, and welcomes qualified candidates from widely distributed geographical areas, provided they meet the standards of admission.

The Committee places great importance on the fact that the student has learned to think for himself, to explore, to work hard under his own initiative, to face alternatives and make decisions, and has developed a desire for a continuous program of self-education. Preference is given in the selection of students to those

who have shown, in the opinion of the Committee on Admissions, high achievement in their college education, a mature sense of values and sound motivation, qualities of leadership, willingness and ability to assume responsibility, and who, therefore, have already given evidence that they are likely to become ethical, well-trained, and competent physicians.

The practice of medicine is both a science and an art, and to treat the patient as a whole man, the doctor must be a whole man himself. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education of which science is a part.

ACCEPTANCE FEE

A student who has been notified that his application has been accepted should reply within three weeks stating whether or not he intends to register. If accepted before February 15, he may send with his letter of acceptance a check or money order for $50, payable to Columbia University but which is refundable on request until March 1. If accepted after February 15, he must notify the Dean and send his $50 acceptance fee within two weeks after he has received his letter of acceptance, the fee being retained by the University. Should the applicant not register for the courses for the following academic year, the fee will not be returned unless the University for any reason cancels the acceptance. If the applicant registers at the College in the class to which he has been admitted, the amount of the acceptance fee will be credited to his tuition.

ADMISSION TO ADVANCED STANDING

Only a limited number of vacancies occur during the medical course, and students can be accepted on transfer from other schools only when such vacancies do occur. Any student desiring to transfer to the upper classes of the College should communicate with the Dean to learn if vacancies exist.

ADMISSION OF FOREIGN STUDENTS

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student who is not attending an American college or university and wishes to apply to the College should communicate with the Dean.

Applicants from other countries must have command of the English language and must have fulfilled all admission requirements, including at least three years of study in the liberal arts and sciences (not under a faculty of medicine). A personal interview is required of foreign students; hence, candidates cannot be considered before their arrival in the United States.

► REGISTRATION

Before attending classes, each student must register in person during the registration period (see the Academic Calendar). He goes to the Office of the Registrar, files a registration blank giving such information as may be required, and pays his fees. The office, on the second floor of the College building, is open from 9 a.m. to 5 p.m. daily except Saturdays and holidays.

All students will be asked to give social security numbers when registering in the University. Those who do not now have a number should obtain one from their local social security office well in advance of registration.

► REGULATIONS

Each person whose registration has been completed will be considered a student of the University during the term for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

The privileges of the University are not available to any student until he has completed his registration. Since, under the University statutes, payment of fees is part of registration, no student's registration is complete until his fees have been paid. No student is permitted to attend any University course for which he is not officially registered unless he has been granted auditing privileges. No student may register after the stated period unless he obtains the written consent of the proper dean or director.

ATTENDANCE

Students are held accountable for absences incurred owing to late enrollment. Any student whose religious duties conflict at any time with academic requirements should apply to his dean or director for an equitable solution.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University.

HONOR CODE

Academic and intellectual integrity are accepted principles in the medical profession. An Honor Code, created and administered by the student body, is the formal

acknowledgement of this understanding at the College. Each student is expected to abide by it.

► AUDITING COURSES

Degree candidates in good standing who are enrolled for a full-time program in the current term may audit one or two courses in any division of the University without charge by filing a formal application in the Registrar's Office (P&S, Room 2–405) during the change-of-program period. Applications require (*a*) the certification of the Registrar that the student is eligible to audit and (*b*) the approval of the dean of the school in which the courses are offered.

Elementary language courses, laboratory courses, and seminars are not open to auditors; other courses may be closed because of space limitations. In no case will an audited course appear on a student's record, nor is it possible to turn an audited course into a credit course by paying the fee after the fact.

► FEES

The following fees, prescribed by statute for medical students, are subject to change at any time at the discretion of the Trustees:

TUITION

For the full course in medicine for one academic year (or equivalent), payable in two installments	$2,300.00

RESEARCH IN RESIDENCE

During the academic year, for any period or part of a period not longer than an autumn term, spring term, or summer	$50.00

STUDENT HEALTH AND HOSPITAL FEE

For all students, per academic year (see pages 30–31)	$65.36

APPLICATION FEES AND LATE FEES

For admission	$20.00
For each special examination	10.00
For renewal of application for a degree	1.00
For late registration	6.00
For late application, or late renewal of application, for a degree	5.00

PAYMENT OF FEES

Tuition is payable each term in advance and as part of registration. If this fee is paid after the last day of registration a late fee of $6 will be imposed. Checks for tuition and fees should be drawn to the order of Columbia University.

WITHDRAWAL AND ADJUSTMENT OF FEES

A student in good academic standing who is not subject to discipline will always be given an honorable discharge if he wishes to withdraw from the University. If he is under twenty-one years of age, his parent or guardian must first give consent in writing to the Dean. The Dean may, for a valid reason, grant a leave of absence to a student in good standing.

Any adjustment of the tuition that the student has paid is reckoned from the date on which the Registrar receives the student's written notification. The student health and hospital fee, application fees, late fees, and special fees are not subject to rebate.

Up to and including the second Saturday after the first day of classes, the following amount will always be retained:

Full-time study	$50.00
Part-time study	25.00

An additional 20 percent of the remaining total tuition charged will be retained for each week, or part of a week, that the student remains registered. The student is considered registered until the date on which his written notice of withdrawal is received by the Registrar.

ADJUSTMENT SCHEDULE

	Minimum Fees Retained	*Percentage of Remaining Tuition Retained*
Second Saturday after the first day of classes	$25 or $50	0
Following week	25 or 50	20
Second following week	25 or 50	40
Third following week	25 or 50	60
Fourth following week	25 or 50	80
Fifth following week	25 or 50	100 (No Adjustment)

UNDUE BREAKAGE

Although no deposit is required of students to cover laboratory material and ordinary breakage, a charge will be made for any unusual amount of breakage.

STUDENT HEALTH SERVICE

Daily office hours for sick students are held by the Student Health Service in Room 2–200, Vanderbilt Clinic. Members of the Health Service are available to attend sick students who live near the Medical Center. Students who require hospitalization are taken care of either in the wards of the Medical Center or elsewhere under a hospitalization insurance policy.

The student health and hospital fee is used to pay the annual premium of the

Associated Hospital Service of New York for hospital insurance (unless a student already has hospital insurance) and to pay part of the cost of the student health service. Charges for the hospital insurance premium are subject to revision if rates are changed.

APPLICATION, OR RENEWAL OF APPLICATION, FOR A DEGREE

A candidate for the M.D. or Med.Sc.D. degree must file application for the degree by March 1 of the year in which he expects the degree to be awarded. Announcement of the date and procedure is posted on the bulletin boards each spring. If the degree is not earned as expected, the application may be renewed the following year for a fee of $1. The M.D. and Med.Sc.D. degrees are awarded in June; the Ph.D. degree is awarded whenever the candidate completes the requirements.

► ESTIMATED EXPENSES

The approximate current cost of attending the College for an academic year is as follows:

	Average	*Minimum*
Tuition and fees	$2,365	$2,365
Room in Bard Hall	585	450
Board	850	800
Books and instruments (except microscope)	250	200
Laundry and dry cleaning	150	100

In addition, each student should budget an average of $350 (minimum $250) for such items as clothing, travel, amusements, and sundries.

MICROSCOPE, INSTRUMENTS, AND BOOKS

Each entering student is required to provide himself with a microscope of standard make fitted with the following attachments:

Binocular body with 10x wide field high-eyepoint eyepieces with pointer; quadruple nosepiece fitted with 4 achromatic objectives of approximately 4x, 10x, 45x, and 100x oil immersion; ungraduated mechanical stage; Abbe condenser with rack and pinion focusing mount; low voltage substage illuminator with transformer attached to the microscope (110 volt attached illuminator also acceptable); all in carrying case.

Minimum microscope requirements are: monocular microscope with 10x eyepiece; triple nosepiece; 10x, 45x, and 100x oil-immersion objectives; mechanical stage ungraduated; Abbe condenser; attached substage 110 volt lamp; carrying case.

The cost of a suitable reconditioned microscope varies from $300 to $600 depending on the age, make, and model. The standard prices of new microscopes range from $750 to $950. A limited number of monocular microscopes are available for rental at $15 a month or $120 for the school year.

Students are required to secure the usual instruments needed for the various diagnostic examinations of patients.

The books required or recommended for courses of instruction are announced at the beginning of the year.

► HOUSING

The current average room rate at Bard Hall is $585 for the academic year of thirty-eight weeks. First- and second-year medical student residents subscribe to a five-day-a-week, fifteen-meal, prepaid board plan; the present rate is $525 for the academic year, exclusive of the Christmas and Easter holiday periods. In case of marked increase in operating costs, all rates are subject to change. Room application blanks and further information concerning rates will be furnished on request by the Bard Hall Office, 50 Haven Avenue, New York, N.Y. 10032

Financial Aid

A *fellowship* is an academic award of honor accompanied by a stipend to be used by the fellow in the furtherance of his studies or research. Fellows are not required to render any service to the University or the donor; rather, they are to devote their entire time to their own work. There is no restriction on a fellow's publication of his studies or research as a condition of the grant. A fellow may not engage in any remunerative employment while holding a fellowship unless the Dean gives his written consent.

A *scholarship* is an award, based primarily on financial need, of a stipend to be used by the scholar in the furtherance of his studies or research. The same rules of tenure apply as those governing fellowships except that scholars may engage in remunerative employment without the consent of the Dean. Scholarship stipends are usually smaller than fellowship stipends.

Fellowships and scholarships are usually awarded for one academic year at a time. They may be canceled at any time for failure to maintain a satisfactory academic standard or to comply with the terms of the award. Fellows and scholars, except those holding traveling fellowships, are expected to reside in New York City or its vicinity during the academic year, unless written permission is granted by the Dean to study elsewhere.

Dates of application and further information may be obtained from the Office of the Dean.

FELLOWSHIPS

Area Institute. Varying in number; from $2,500 to $3,500 each. Open to graduates of, or second-year students in, the professional schools of the University; for work toward certificates in the regional institutes. An applicant is required to give the major portion of his time to the area program; he should discuss his program with the appropriate institute director before applying.

Bache, Jules S. (1945). Open to one or more graduate or undergraduate physicians who, in the judgment of the Professor of Obstetrics and Gynecology, are fitted to do special work in obstetrics and gynecology. Given by Mrs. Muriel Richards Pershing and Mrs. Dorothy Richards Hirshon, in memory of their grandfather, Dr. Jules S. Bache.

Barnes-Foster (1950). Open to women graduate students for work in gynecology.

Beekman, Gerard (1940). Awarded annually for advanced work in orthopedic surgery. Given by the Beekman Family Association.

Cutting, William Bayard, Traveling (1913). Two; awarded annually. Open to men who have been in residence as candidates for higher degrees under the Graduate Faculties for at least one academic year and to graduates of the Uni-

versity in law, medicine, architecture, or music who have had at least one additional year of graduate study in the University. Given by Mrs. William Bayard Cutting, in memory of her husband, William Bayard Cutting, LL.B. (18)'71, M.A. (18)'72.

Du Bois, Abram. Awarded annually. Open to a graduate of the College; for specialization in diseases of the eye or for studies in surgical pathology. The holder devotes his time to clinical and laboratory study, at home or abroad. Given by the two sons and the daughter of Dr. Abram Du Bois, Class of 1835.

Ellis, George W. Awarded annually. Open to graduates of recognized Vermont colleges. Reappointment: for a student in medicine, not more than three additional years.

Gay, Frederick Parker, Memorial. Awarded annually. For graduate work in bacteriology; awarded on the nomination of the chairman of the Department of Microbiology.

Gies, William J. Awarded annually. For graduate study in biochemistry; awarded on nomination of the chairman of the Department of Biochemistry.

Holt, L. Emmett. Awarded annually. Open to a student of the graduating class of any medical school or to a graduate of not more than six years standing; for the study of diseases of children, in this country or abroad. Reappointment: for not more than one additional year.

James, Walter Belknap, Research. Awarded annually. Open to a graduate in medicine; for advanced study in medicine either at the University or elsewhere.

Koplik Children's Scholarship. Awarded every other year. Open to a physician under thirty years of age who has shown special aptitude for original work in the investigation of the diseases of children.

Lambert, Samuel W. and Elizabeth W., Traveling (1948). For specialization in surgery. Given in memory of Samuel W. and Elizabeth W. Lambert.

Proudfit, Maria McLean. Awarded every four years. Open to a son of native-born American parents; for advanced studies in internal medicine. The holder must remain unmarried for the duration of the fellowship. Given by Alexander Moncrief Proudfit, B.A., (18)92. Next award: 1969–1970.

Romaine, DeWitt C. (1946). For medical research in the College. Given by the estate of C. Everetta Romaine.

Ryle, Dorothy, Research (1950). For research in neurology. Given by Mrs. Thorneycroft Ryle.

Tilney, Frederick, Memorial Fund. For such research projects in neurology as may be recommended from time to time by the chairman of the Department of Neurology, the Dean of the Faculty of Medicine, and the President of the Board of Trustees of the Presbyterian Hospital. Given by the Frederick Tilney Memorial Fund, Inc.

Tucker, Ervin Alden. Awarded annually. For graduate study in obstetrics. Given by Mrs. Ervin Alden Tucker.

SCHOLARSHIPS

Alumni. A limited number of national scholarships. Provided by gifts from the P&S Alumni Association and other contributors.

Anonymous. Several; awarded annually. From an anonymous donor.

Banbury (1955). Open to students enrolled in the College. From the Banbury Scholarship Fund.

Bernheim, Isaac J. and Rena Henly. To be awarded annually. Given by the family in honor of Isaac J. and Rena Henly Bernheim.

Birtwhistle, Elsie J. (1965). Founded by the will of Morell Birtwhistle in memory of his wife; to assist one or more worthy students.

Blumenthal, George, Jr. Several. From the George Blumenthal, Jr., Fund.

Britenstool, Dr. Harry, Memorial (1964). From the estate of Mrs. Blanche B. Ostheimer in memory of her brother.

Brownstone, Lucien and Ethel, Merit Medical Scholarship Fund (1965). A merit scholarship to be awarded every four years. First award: 1965–1966. "Established for the benefit of humanity and for the encouragement of this nation's outstanding and gifted individuals to plan careers in medicine."

Buchman, Dr. Moses R., Memorial (1957). Open to undergraduate medical students, with preference given to those who are residents of Westchester and who plan to practice pediatrics. Established by friends of Dr. Buchman.

Bull, David C., Memorial (1959). In memory of Dr. David C. Bull, a former member of the Department of Surgery.

Butler, Richard. Open to men born in the state of Ohio who are qualified for admission to, and plan to enter, Columbia College, one of the Graduate Faculties, the Schools of Law or Engineering & Applied Science, or the College of Physicians and Surgeons. Reappointment: not more than two additional years.

Clark, Alonzo. Awarded annually. Founded by the will of Alonzo Clark, M.D., LL.D., for many years President of the College of Physicians and Surgeons.

Class of 1890. Awarded annually. Given by a member of the class.

Class of 1899. Awarded annually. For a resident scholarship. Given by the class in commemoration of the thirty-fifth anniversary of its graduation.

Class of 1912. Awarded annually. Given by the class on the fifteenth anniversary of its graduation.

Class of 1920. Awarded annually. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1932. Awarded annually. For a scholarship room. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1933. For a scholarship room.

Class of 1936. Awarded annually. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1952. Given by members of the class on the tenth anniversary of its graduation.

Class of 1953. Awarded annually. Given by members of the class.

DeAngelis, Anthony M. (1958). Open to a student of the fourth-year class. Given by Dr. Anthony M. DeAngelis.

Dennett, Horace. Several; awarded annually. Open to students in the third- and fourth-year classes whose records of ability and scholarship give evidence of special fitness.

Detwiler, Samuel R., Memorial (1957). Awarded annually. Given by Dr. Detwiler's friends and colleagues.

Devendorf, David M. Preference is given to a candidate from Herkimer County, New York, preferably one from the town of Herkimer. Given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861.

Doughty, Francis E. Given by Miss Phoebe Caroline Swords, in memory of Dr. Francis E. Doughty, Class of 1869.

Eichner, Joseph Herman and Hannah (1941). Awarded annually. Founded by the will of Benjamin Bernard Eichner, Class of 1919.

Frantz, Virginia Kneeland. Awarded annually. Bequest of Dr. Frantz. Established in 1967.

George and Charlie (1942). Awarded annually. Given by the Alumni Association of the College, in memory of George Peters and Charles Costello.

Hanlon, John F. Awarded annually. Given by members of the Class of 1951, in memory of their classmate, John F. Hanlon.

Harsen, Jacob (1859). Five; awarded annually: two to students in the second-year class, two to students in the third-year class, and one to a student in the fourth-year class. Given by Dr. Jacob Harsen.

Hartley, Frank (1914). Given by friends and colleagues of Dr. Frank Hartley, Class of 1880.

Hemingway, William H. Several; awarded annually; to cover tuition.

Himmelstein, Aaron, Memorial (1960). Awarded annually. Open to undergraduate medical students. Given by Dr. Himmelstein's friends and colleagues.

Huber, Francis. Awarded annually. Open to a graduate of any institution other

than Columbia University, the College of the City of New York, Barnard College, and Hunter College. Given by Dr. Francis Huber.

Huber, Viola B. Awarded annually. Open to a graduate of Hunter College. Given by Dr. Francis Huber.

Jacobi, Abraham. Four; awarded annually; two to graduates of Columbia University and two to graduates of the College of the City of New York. Given by Dr. Francis Huber in memory of Dr. Abraham Jacobi.

Loeb, Robert F., Educational Gift (1961). For the education of children of full-time staff members.

McAneny, Marjorie. Awarded annually. Open to a graduate of Barnard College. Given by Dr. Francis Huber.

Markoe, Francis Hartman. Awarded annually. Given by Madeline Shelton Markoe, in memory of her husband.

Rappleye, Willard Cole. Established at the retirement of Dean Rappleye.

St. John-Princeton (1955). Open to graduates of Princeton University who have been admitted to the College.

Saphir, Joseph F., Memorial (1960). Awarded annually. Given by Elsa M. Saphir, in memory of her husband, Joseph F. Saphir, Class of 1902.

Severinghaus, Aura E. (1961). Established by The Clark Foundation as an unrestricted, discretionary fund to be used primarily for the support of students and student activities. Requests of fourth-year students who, by electing clerkships at the Mary Imogene Bassett Hospital, Cooperstown, New York, are subject to increased living and transportation costs are given priority.

Severinghaus, Aura E. (1962). Awarded annually. Given by faculty members, alumni, and students.

Stewart, Edgar Eginton, Jr., Memorial. Awarded annually. Given by Dr. E. E. Stewart, in memory of his son.

Vollmer, Hermann. Awarded annually. Open to candidates in medicine. Established in his memory by his wife.

Vosseler, Theodore L. Awarded annually. Preference is given to graduates of Colgate University. Given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler.

Wechsler, Robert M. Awarded annually. Given by Dr. I. S. Wechsler, in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the Class of 1945, in memory of their classmate.

Wilson, Dr. James Lancelot. Awarded annually. In the words of the donor: "the income from this fund is to be awarded each year, without regard to race, creed or color, to a deserving male or female student suffering from ischemia of opportunity and finance; such student to be selected by the College of Physicians and Surgeons."

PRIZES

With the exception of the Stevens Triennial Prize, all awards are made annually.

Coakley Memorial Prize. Awarded by the Department of Otolaryngology to the student who, in the opinion of the Professor of Otolaryngology, has done the best work in the field for the current year.

Cock, Thomas F., M.D., Prize. Awarded to the student in the College who submits the best thesis on puerperal fever. Given by bequest of Augustus C. Chapin.

Gay, Frederick Parker, Memorial Award (1948). Awarded to a student doing outstanding work in microbiology who is chosen by the chairman of the Department of Microbiology and the Dean of the Faculty of Medicine. Given by Mrs. Frederick Parker Gay, in memory of her husband.

Janeway Prize. Awarded to the student graduating from the College who, in the opinion of the Faculty, has ranked highest in efficiency and ability. Given by bequest of Matilda S. J. Wisner.

Meierhof, Dr. Harold Lee, Prize. Awarded by the Professor of Pathology to the student who, in his opinion, has done the best work in the field for the current year. Given by the parents of Dr. Harold Lee Meierhof, Class of 1917.

Parker, Joseph Garrison, Award. Awarded to the senior in the College who best exemplifies, through a continued personal interest and activities in art, music, literature, or the public interest, the fact that Living and Learning go together. Given by Dr. and Mrs. Philip Parker, in memory of their son, Joseph, Class of 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts was a constant source of inspiration.

Psychiatry, Department of, Prize. Awarded by the Department of Psychiatry to a second-year student for the best work in psychopathology.

Sciarra, Helen M., Prize. Awarded to the fourth-year student who has done the best work in the third-year neurology elective.

Smith, Joseph Mather, Prize. Awarded to the graduate of the College whose essay or original research in medical subjects is deemed by the Committee of Award to be the most meritorious.

Stevens Triennial Prize. Awarded triennially to the person, not necessarily a graduate of the College, who submits the best essay or original research on any medical subject.

Urology Prize. Awarded to the undergraduate student who submits the best essay on a urological subject during the school year.

Watson, Dr. William Perry, Foundation in Pediatrics Prize (1921). Awarded to a member of the graduating class who has been in attendance for at least two years and who has shown the most efficient work in the study of the diseases of infants and children during the regular course at the College.

Winchester, Walter, Prize. Awarded to the senior in the College who, in the opinion of the Faculty, has the potential of exemplifying the humanitarian spirit in the art and practice of medicine as lived by the late Dr. Winchester, Class of 1900. Given by Dr. and Mrs. Lewis D. Kaufman.

STUDENT LOANS

Loan funds are provided by Columbia University and by the Health Professions Student Loan Program, through the University, for the assistance of students after enrollment. Application forms may be obtained from the Office of the Dean.

Students who are legal residents of New York State are eligible for loans and for New York State Scholar Incentive Awards through the New York State Higher Education Assistance Corporation. Application forms and instructions are issued by the Dean's Office.

Limited funds are available periodically for loans to medical students in emergencies. These funds, administered by the Dean, come from gifts by classmates and friends in memory of John Adams Mahew, Class of 1955, and from other sources.

STUDENT EMPLOYMENT

The Dean's Office will assist in obtaining suitable positions for medical students and graduates who are in need of employment. A list of the available positions for medical students is maintained. Because of the heavy schedule of the College it is difficult for medical students to undertake part-time work outside the Medical Center during the academic year and, so far as feasible, other financial arrangements should be made.

The wives of medical students will find many opportunities for employment at the Medical Center; those who are interested should consult the personnel offices of the College and the Hospital.

Student and Alumni Activities

All students enrolled in the College enjoy the privileges and facilities of the University campus, including the University libraries, the Placement Office, and the various student activities.

P&S CLUB

The P&S Club is now in its seventy-fifth year. During its long history it has concerned itself with the extracurricular activities of the medical students. It has enriched student life at P&S with its broad program of social, spiritual, athletic, and cultural activities. The program is carried out by more than twenty student committees under the full-time services of the Director of Student Activities, Mr. Edwin M. Barton.

A faculty board of advisers assists the students and the Director in the operation and support of the club program. Every matriculated student in the College of Physicians and Surgeons is automatically a member and is invited to participate in the pursuits of his choice.

Among the activities sponsored by the P&S Club are an orientation program for new students, athletic contests, concerts, choir and vesper services, talks by guest lecturers, home visits with members of the faculty, and student-faculty visits.

In recent years, the Club has also sponsored conferences on such subjects as medicine and religion, and medicine and law, as well as on medical service appointments here and abroad.

THE ALPHA OMEGA ALPHA HONORARY FRATERNITY

The Alpha Omega Alpha honorary fraternity is a medical honor society, membership in which is based on scholarship and character. A chapter was organized at the College of Physicians and Surgeons in 1907.

ALUMNI ASSOCIATION OF THE COLLEGE OF PHYSICIANS AND SURGEONS

After graduation, all students who are in good professional standing may become members of the Alumni Association of the College of Physicians and Surgeons by notifying the secretary, Dr. Stephen M. McCoy, 630 West 168th Street, New York, N.Y. 10032, that they wish to join.

Departments of Instruction

ANATOMY

PROFESSORS

Edward W. Dempsey, *chairman*. *B.A., Marietta, 1932; Sc.M., Brown, 1934; Ph.D., 1937; M.A., Harvard, 1946; Sc.D., Marietta, 1954*
Malcolm B. Carpenter. *B.A., Columbia, 1943; M.D., Long Island, 1947*
Herbert O. Elftman. *B.A., California, 1923; M.A., 1925; Ph.D., Columbia, 1929*
Sarah A. Luse. *B.A., Rockford, 1940; M.D., Western Reserve, 1949*
Frederick A. Mettler (assigned to Neurology). *B.A., Clark, 1929; M.A., Cornell, 1931; Ph.D., 1933; M.D., Georgia, 1937; D.Sc., Clark, 1951*
Melvin L. Moss (Dean, Faculty of Dental and Oral Surgery). *B.A., New York University, 1942; D.D.S., Columbia, 1946; Ph.D., 1954*
Margaret R. Murray (assigned to Surgery). *B.A., Goucher, 1922; M.S., Washington University, 1924; Ph.D., Chicago, 1926*
Charles R. Noback. *B.S., Cornell, 1936; M.S., New York University, 1938; Ph.D., Minnesota, 1942*

MALCOLM P. ALDRICH PROFESSOR

George K. Smelser (assigned to Ophthalmology). *B.A., Earlham, 1929; Ph.D., Chicago, 1932*

ASSOCIATE PROFESSORS

Frederic J. Agate. *B.A., Columbia, 1932; Ph.D., 1949*
Philip W. Brandt. *B.A., Swarthmore, 1952; M.S., Pennsylvania, 1957; Ph.D., Columbia, 1960*
Richard P. Bunge. *B.A., Wisconsin, 1954; M.S., 1956; M.D., 1960*
Charles A. Ely. *B.A., Washington and Jefferson, 1936; Ph.D., Wisconsin, 1949*

ASSOCIATE CLINICAL PROFESSOR

Robin M. Rankow (assigned to Otolaryngology). *B.S., College of the City of New York, 1935; D.D.S., Columbia, 1940; M.D., Rochester, 1950*

ASSISTANT PROFESSORS

John M. Bedford (assigned to International Institute for Study of Human Reproduction). *B.A., Cambridge, 1958; M.A., Vet.M.B., M.R.C.V.S., 1958; Ph.D., London, 1965*
George W. Cooper, Jr. *B.A., Brown, 1958; Ph.D., Stanford, 1964*
Marie D. Felix. *B.S., American, 1956; M.S., Cornell, 1961; Ph.D., 1962*
Farish A. Jenkins, Jr. *B.A., Princeton, 1961; M.S., Yale, 1966; Ph.D., 1968*
W. Patrick Luckett. *B.A., Missouri, 1961; M.A., 1963; Ph.D., Wisconsin, 1967*
Edmund B. Masurovsky. *B.S., Cornell, 1954; M.S., 1957; Ph.D., 1960*
Mary S. Parshley (assigned to Obstetrics and Gynecology). *B.A., Smith, 1933; M.A., Pennsylvania, 1935; Ph.D., 1938*
Letty Salentijn. *D.D.S., State University of Utrecht, 1967*
Shih-Chang Shen. *B.S., Yenching, 1933; Ph.D., Cambridge, 1939*

RESEARCH ASSOCIATES

Mary B. Bunge
Bei-Loo Chen
Robert J. Demarest

INSTRUCTORS

B. William Glick
James S. Harrison

INSTRUCTORS (*continued*)

Julius K. Littman
Alfonso Solimene

ANESTHESIOLOGY

PROFESSORS

Emanuel M. Papper, *chairman. B.A., Columbia, 1935; M.D., New York University, 1938*
Lester C. Mark. *M.D., Toronto, 1941*
Gabriel G. Nahas. *M.D., Toulouse, 1944; Ph.D., Minnesota, 1953*
Shih-Hsun Ngai. *B.M., National Central (Nanking), 1944*

PROFESSOR OF PEDIATRICS

L. Stanley James. *M.D., Otago (New Zealand), 1948*

PROFESSOR OF CLINICAL ANESTHESIOLOGY

Edgar C. Hanks. *B.A., Gettysburg, 1943; M.D., Jefferson, 1947*

ASSOCIATE PROFESSORS

Robert M. Epstein. *B.S., Michigan, 1947; M.D., 1951*
Joannes H. Karis. *M.D., State University of Utrecht, 1952*
Ronald Katz. *B.A., Wisconsin, 1952; M.D., Boston, 1956*
Richard J. Kitz. *B.S., Marquette, 1951; M.D., 1954*
Richard W. Patterson. *B.A., Iowa, 1944; M.D., 1947*
Herbert Rackow. *B.S., Pennsylvania State, 1939; M.D., Howard, 1946*
Stuart E. Sullivan. *B.S., Canisius, 1950; M.D., State University of New York (Upstate), 1955*

ASSOCIATE PROFESSORS OF CLINICAL ANESTHESIOLOGY

Leonard Brand. *B.S., Yale, 1946; M.D., Columbia, 1949*
Ernest Salanitre. *B.S., College of the City of New York, 1936; M.D., Rome, 1942*
Herman Schwartz. *B.A., New York University, 1944; M.D., 1946*

ASSISTANT PROFESSORS

Veronica Bakamjian. *B.A., American University of Beirut, 1932; M.D., 1937*
Robert A. Baratz. *B.S., Wisconsin, 1952; M.D., Marquette, 1963; Ph.D., Illinois, 1954; M.S., 1959*
Walter C. Bernards. *B.S., Portland, 1957; M.S. and M.D., Oregon, 1960*
Mieczyslaw Finster. *B.A., Gymnasium (Poland), 1941; M.D., Geneva, 1957*
Aaron J. Gissen. *B.A., Johns Hopkins, 1936; M.D., New York University, 1940*
Lynne T. Greene. *B.A., Syracuse, 1945; M.D., 1947*
Jean Henley. *B.A., Barnard, 1937; M.D., Columbia, 1940*
George P. Hoech, Jr. *B.A., William Jewell, 1954; M.D., Washington (St. Louis), 1960*
Allen I. Hyman. *B.A., Columbia, 1955; M.D., Albany, 1959*
Vance Lauderdale. *B.A., Harvard, 1945; M.D., Columbia, 1947*
Arnold St. John Lee. *B.A., Temple, 1947*
Shirley J. Markee. *B.A., Duke, 1953; M.D., 1958*
Richard S. Matteo. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1955*
Hisayo O. Morishima. *M.D., Toho (Tokyo), 1951; Ph.D., Tokyo, 1959*
Daniel M. Pino. *M.D., New York University, 1942*
Paul J. Poppers. *M.D., Amsterdam, 1955*

John F. Ryan. *B.A., Boston College, 1957; M.D., Columbia, 1961*
Lubos Triner. *M.D., Charles (Prague), 1955; Ph.D., 1961*
Charles E. Wolf. *B.A., Texas Lutheran, 1950; M.D., Texas, 1954*

ASSISTANT CLINICAL PROFESSOR

Edward L. Gibson. *B.S., Roosevelt, 1953; M.D., Howard, 1957*

ASSOCIATES

Llynda M. Hinds
Hilda Pedersen
Daniel M. Philbin

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Salha S. Daniel
Elias G. Debbas

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Atsuo Fukunaga
Jindrich Kypson
Robert C. Lin
Sonia R. Sarcia
Iris W. Schwartz
Mariagnes Verosky

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Carl C. T. Wang

INSTRUCTOR

Gerald L. Feinberg

► AT MARY IMOGENE BASSETT HOSPITAL

ASSISTANT CLINICAL PROFESSOR

William F. Karl. *B.A., Cornell, 1947; M.D., 1951*

► AT HARLEM HOSPITAL

ASSISTANT CLINICAL PROFESSORS

Samuel C. Brisbane. *B.A., Lincoln, 1937; M.D., Howard, 1949*
Herbert G. Cave. *M.D., Howard, 1947*
Gilbert Phanor. *B.S., Lycee T. Gilboro, 1953; M.D., Medical School of Haiti, 1960*
Stephanie Shech. *M.D., University of Josef Pilsudski, 1937*
Eugene C. Simms. *B.S., Morgan State, 1953; M.D., Howard, 1964*

INSTRUCTOR

Oscar N. Graves

► AT ROOSEVELT HOSPITAL

ASSISTANT CLINICAL PROFESSOR

Richard Keenan. *M.D., Creighton, 1957*

INSTRUCTOR

Ronald A. Andree

► AT ST. LUKE'S HOSPITAL

ASSISTANT CLINICAL PROFESSOR

Louis S. Blancato. *M.D., New York Medical College, 1945*

BIOCHEMISTRY

PROFESSORS

David B. Sprinson, *acting chairman*. *B.A., College of the City of New York, 1931; M.S., New York University, 1936; Ph.D., Columbia, 1946*
Reinhold Benesch. *B.Sc., Leeds, 1941; M.Sc., 1945; Ph.D., Northwestern, 1950*
Erwin Chargaff. *Ph.D., Vienna, 1928*
Irwin Clark (assigned to Orthopedic Surgery). *B.A., Harvard, 1939; Ph.D., Columbia, 1949*
Samuel Graff. *B.S., Purdue, 1927; Ph.D., Columbia, 1931*
Seymour Lieberman (assigned to Obstetrics and Gynecology). *B.S., Brooklyn, 1936; M.S., Illinois, 1937; Ph.D., Stanford, 1941*
Barbara W. Low. *B.A., Oxford, 1942; M.A., 1946; D.Phil., 1948*
Maurice M. Rapport (assigned to Psychiatry). *B.S., College of the City of New York, 1940; Ph.D., California Institute of Technology, 1946*
David Rittenberg. *B.S., College of the City of New York, 1929; Ph.D., Columbia, 1934*

ASSOCIATE PROFESSORS

Max A. Eisenberg. *B.A., Brooklyn, 1938; M.S., New York University, 1941; Ph.D., Duke, 1950*
Philip Feigelson (Cancer Research). *B.S., Queens, 1947; Ph.D., Wisconsin, 1951*
Allen M. Gold. *B.A., Chicago, 1950; Ph.D., Harvard, 1955*
Alvin I. Krasna. *B.A., Yeshiva, 1950; Ph.D., Columbia, 1955*
David J. Smith. *D.D.S., Columbia, 1944*
Parithychery Srinivasan. *B.Sc., Madras, 1946; Ph.D., 1953*

ASSISTANT PROFESSORS

George Alexander (assigned to Psychiatry). *B.S., Hobart, 1949; Ph.D., Rutgers, 1953*
Ruth E. Benesch. *B.Sc., London, 1946; Ph.D., Northwestern, 1951*
Gerald Cohen (assigned to Psychiatry). *B.S., College of the City of New York, 1950; M.A., Columbia, 1952; Ph.D., Columbia, 1954*
Horace B. Gillespie. *B.A., Lawrence, 1925; M.S., Illinois, 1926; Ph.D., 1930*
Jay A. Glasel. *B.S., California Institute of Technology, 1955; Ph.D., Chicago, 1959*
Edith G. Gollub. *B.S., Philadelphia College of Pharmacy and Science, 1945; M.S., Pennsylvania, 1956; Ph.D., 1961*
Irving Goodman (assigned to Surgery). *B.A., Colorado, 1939; M.S., 1941; Ph.D., 1944*
John D. Karkas. *B.A., Thessaloniki (Greece), 1952; Ph.D., Columbia, 1962*
Leon T. Kremzner (assigned to Neurology). *B.S., Seton Hall, 1949; M.S., Rutgers, 1952; Ph.D., 1955*
Kenneth O. Lloyd (assigned to Dermatology). *B.Sc., Wales, 1957; Ph.D., 1960*
Ines Mandl (assigned to Obstetrics and Gynecology). *Ph.D., Polytechnic Institute of Brooklyn, 1949*
Herbert L. Meltzer (assigned to Psychiatry). *B.S., Long Island, 1942; Ph.D., Columbia, 1950*
Herman Shapiro. *B.S., College of the City of New York, 1951; Ph.D., Columbia, 1958*
Benjamin Weiss (assigned to Psychiatry). *B.S., Iowa, 1944; Ph.D., Illinois, 1949*

ADJUNCT ASSISTANT PROFESSOR

Liese L. Abell (assigned to Medicine). *Ph.D., Frankfurt, 1935*

ASSOCIATES

Ada M. Graff
James van der Veen

RESEARCH ASSOCIATES

Mella Adlersberg
Elinor F. Brunngraber
Era Cassuto

RESEARCH ASSOCIATES (*continued*)

J. Carter Cook
Jean Dayan

RESEARCH ASSOCIATES
(*continued*)

David D. Dexter
Peter Eggena
William W. Fullerton
James M. Perel
Marko Petrinovic
Laura Ponticorvo
Ildiko Radichevich
(assigned to Medicine)
Carl Rothschild
(assigned to Urology)

RESEARCH ASSOCIATES
(*continued*)

Roger D. Simkin
Hadassah Tamir
John K. Tseng
John Vnek
Anna Fang Wu
Paula E. Zimmering
(assigned to Obstetrics and Gynecology)

SPECIAL LECTURERS

Zacharias Dische
(assigned to Ophthalmology)
Forrest E. Kendall
(assigned to Medicine)
Karl Meyer
(assigned to Medicine)
David Nachmansohn
(assigned to Neurology)

► AT MARY IMOGENE BASSETT HOSPITAL

ASSOCIATE

Theodore Peters, Jr.

RESEARCH ASSOCIATE

William A. Warren

► AT HARLEM HOSPITAL

ASSOCIATE

Anne M. Briscoe

RESEARCH ASSOCIATE

Muriel Feigelson
(assigned to Obstetrics and Gynecology)

DERMATOLOGY

PROFESSOR

Carl T. Nelson, *chairman*. *B.A., Harvard, 1935; M.A., 1937; M.D., 1941*

CLINICAL PROFESSOR

Anthony N. Domonkos. *M.D., Budapest, 1939*

ASSOCIATE PROFESSOR

Margarita Silva-Hutner. *B.A., Puerto Rico, 1936; M.A., Radcliffe, 1945; Ph.D., 1952*

ASSOCIATE CLINICAL PROFESSORS

Saul L. Sanders. *B.A., Kenyon, 1950; M.D., Cornell, 1954*
Lewis Shapiro. *B.A., Duke, 1948; M.D., 1952*

ASSISTANT PROFESSOR

Irene Weitzman. *B.S., Brooklyn, 1955; M.A., Columbia, 1961; Ph.D., 1963*

ASSISTANT PROFESSOR OF BIOCHEMISTRY

Kenneth O. Lloyd. *B.S., Wales, 1957; Ph.D., 1960*

ASSISTANT CLINICAL PROFESSORS

Irving Abrahams. *B.A., New York University, 1948; M.D., State University of New York, 1954*
Jack Eisert. *B.A., Cornell, 1952; M.D., State University of New York, 1956*
Meyer H. Slatkin. *B.S., College of the City of New York, 1935; M.D., Edinburgh, 1940*
Richard A. Walzer. *B.A., Harvard, 1952; M.D., Columbia, 1956*
Alexander W. Young. *B.S., Maryland, 1944; M.D., 1946*

ASSOCIATES

Marvin Brodey
James P. Fields

RESEARCH ASSOCIATE

Julia M. Einbinder

INSTRUCTORS

William G. Atwood
Louis A. Fragola

INSTRUCTORS (*continued*)

Einar A. Juhlin
Theodore A. Labow
Peter C. Lombardo

ASSISTANTS

Jack H. Rozen
Luis Suarez-Reyes

SPECIAL LECTURERS

Leslie P. Barker
J. Lowry Miller

LECTURER

Arturo L. Carrion

► AT HARLEM HOSPITAL

ASSISTANT CLINICAL PROFESSOR

Henry L. Hines. *M.D., Meharry, 1947*

HUMAN GENETICS AND DEVELOPMENT

PROFESSORS

Paul A. Marks, *chairman*, (see Medicine). *B.A., Columbia, 1946; M.D., 1949*
Kimball C. Atwood. *B.A., Columbia, 1942; M.D., New York University, 1946*
Elvin A. Kabat (see Microbiology). *B.S., College of the City of New York, 1932; M.A., Columbia, 1934; Ph.D., 1937*
Sol Spiegelman (Institute of Cancer Research). *B.S., College of the City of New York, 1939; M.S., Columbia, 1942; Ph.D., 1944*

ASSOCIATE PROFESSORS

Orlando J. Miller (see Obstetrics and Gynecology). *B.S., Yale, 1945; M.D., 1950*
Richard A. Rifkind (see Medicine). *B.S., Yale, 1952; M.D., Columbia, 1955*

ASSISTANT PROFESSORS

David H. L. Bishop. *B.Sc., Liverpool, 1959; Ph.D., 1962*
Donald R. Mills. *B.A., Indiana, 1962; M.A., 1964, Ph.D., Illinois, 1968*

INSTRUCTORS

David H. Chui
Jeffrey Schlom

MEDICINE

SAMUEL BARD PROFESSOR

Stanley E. Bradley, *chairman. B.A., Johns Hopkins, 1934; M.D., Maryland, 1938*

TILDEN-WEGER-BIELER PROFESSOR

George L. Curran. *B.A., Harvard, 1941; M.D., Columbia 1944*

PROFESSORS

Charles L. Christian. *B.A., Wichita, 1949; M.D., Western Reserve, 1953*
Harry W. Fritts, Jr. *B.S., Massachusetts Institute of Technology, 1942; M.D., Boston, 1951*
DeWitt S. Goodman. *B.A., Harvard, 1951; M.D., 1955*
Rejane M. Harvey. *B.A., Vassar, 1939; M.D., Columbia, 1943*
Paul A. Marks (see Human Genetics and Development). *B.A., Columbia, 1946; M.D., 1949*
George A. Perera. *B.A., Princeton, 1933; M.D., Columbia, 1937; Med.Sc.D., 1942*
John V. Taggart (see Physiology). *M.D., Southern California, 1940*
Arthur R. Wertheim. *B.A., Dartmouth, 1935; M.D., Jefferson, 1939*

PROFESSORS OF CLINICAL MEDICINE

Henry Aranow. *B.A., Harvard, 1935; M.D., Columbia, 1938*
Charles A. Flood. *B.A., Columbia, 1925; M.D., 1928; M.S., 1933; Med.Sc.D., 1934*
John H. Laragh. *M.D., Cornell, 1948*
Hamilton Southworth. *B.A., Yale, 1929; M.D., Johns Hopkins, 1933*
Sidney C. Werner. *B.A., Columbia, 1929; M.D., 1932; Med.Sc.D., 1937*

CLINICAL PROFESSORS

Howard G. Bruenn. *B.A., Columbia, 1925; M.S., 1933; Med.Sc.D., 1934; M.D., Johns Hopkins, 1929*
M. Irene Ferrer. *B.A., Bryn Mawr, 1937; M.D., Columbia, 1941*

ASSOCIATE PROFESSORS

Robert E. Canfield. *B.S., Lehigh, 1952; M.D., Rochester, 1957*
Andrew G. Frantz. *B.A., Harvard, 1951; M.D., Columbia, 1955*
Hymie L. Nossel. *M.B., Ch.B., Cape Town, 1953; Ph.D., Oxon, 1962*
Richard A. Rifkind (see Human Genetics and Development). *B.S., Yale, 1952; M.D., Columbia, 1955*
Donald F. Tapley. *B.S., Carcadia, 1948; M.D., Chicago, 1952*
Gerard M. Turino. *B.A., Princeton, 1945; M.D., Columbia, 1948*
I. Bernard Weinstein. *M.D., Wisconsin, 1955*

ASSOCIATE PROFESSORS OF CLINICAL MEDICINE

John B. Baldwin, Jr. *M.D., Columbia, 1939*
Stuart W. Cosgriff. *B.A., Holy Cross, 1938; M.D., Columbia, 1942*

Felix E. Demartini. *B.A., Columbia, 1943; M.D., 1946*
Shirley C. Fisk. *B.A., Yale, 1931; M.D., Columbia, 1935*
Albert R. Lamb, Jr. *B.A., Yale, 1936; M.D., Columbia, 1940*
Edgar Leifer. *B.S., College of the City of New York, 1937; M.A., Columbia, 1939; Ph.D., 1941; M.D., 1946*
George W. Melcher. *B.A., Colorado, 1943; M.D., Columbia, 1946*
Kermit L. Pines. *B.A., Columbia, 1937; M.D., 1942*

ASSOCIATE CLINICAL PROFESSORS

Hylan Bickerman. *B.A., Columbia, 1934; M.D., New York University, 1939*
George A. Carden. *Ph.D., Yale, 1931; M.D., Columbia, 1935*
Robert A. Kritzler. *B.A., Columbia, 1936; M.D., Cornell, 1940*
John H. McClement. *B.A., Syracuse, 1938; M.D., Rochester, 1943*
Alfred Steiner. *B.S., Richmond, 1930; M.D., Medical College of Virginia, 1933; Med.Sc.D., Columbia, 1938*
Herbert B. Wilcox, Jr. *B.A., Yale, 1930; M.D., Columbia, 1934*
John A. Wood. *B.A., Harvard, 1943; M.D., 1946*

ASSISTANT PROFESSORS

Arthur Bank. *B.A., Columbia, 1956; M.D., 1960*
John T. Bigger. *B.A., Emory, 1955; M.D., Georgia, 1960*
John L. Buchanan. *B.A., Dartmouth, 1953; M.D., Harvard, 1960*
Robert E. Burch. *B.S., St. Louis, 1955; M.D., 1959*
John Burris. *B.S., Wyoming, 1952; M.D., Rochester, 1956*
Vincent P. Butler, Jr. *B.A., St. Peter's, 1949; M.D., Columbia, 1954*
Peter R. B. Caldwell. *B.A., Dartmouth, 1954; M.D., Harvard, 1958*
Paul J. Cannon. *B.A., Holy Cross, 1954; M.D., Harvard, 1958*
Lawrence J. Kagen. *B.S., New York University, 1957; M.D., 1960*
F. David Kitchin. *M.B., Ch.B., Liverpool, 1947*
Abbie I. Knowlton. *B.A., Bryn Mawr, 1938; M.D., Columbia, 1942*
E. Carwile Leroy. *B.S., Wake Forest, 1955; M.S., North Carolina, 1958; M.D., 1960*
John Lindenbaum. *B.A., Cornell, 1954; M.D., Harvard, 1959*
John N. Loeb. *B.A., Harvard, 1957; M.D., 1961*
David J. McConnell. *B.A., Cornell, 1958; M.D., Yale, 1962*
Thomas Q. Morris. *B.S., Notre Dame, 1954; M.D., Columbia, 1958*
Jane H. Morse. *B.A., Smith, 1951; M.D., Columbia, 1955*
Harold C. Neu. *B.A., Creighton, 1956; M.D., Johns Hopkins, 1960*
Richard Rivlin. *B.A., Harvard, 1955; M.D., 1959*

ASSISTANT PROFESSOR OF MEDICAL SOCIAL WORK

Elizabeth R. Prichard. *B.A., Adelphi, 1943; M.S., New York School of Social Work, 1947*

ASSISTANT PROFESSORS OF CLINICAL MEDICINE

John Van B. Dean. *B.A., Yale, 1939; M.D., Columbia, 1943*
David J. Gocke. *B.A., St. Vincent, 1954; M.D., Pennsylvania, 1958*
Wendell B. Hatfield. *B.A., Columbia, 1953; M.D., 1956*
Donald A. Holub. *B.A., Columbia, 1949; M.D., 1952*
Hans W. Neuberg. *B.A., Wagner, 1941; M.D., Columbia, 1950*
Robert W. Whitlock. *B.A., North Carolina, 1950; M.D., 1957*
Carl R. Wise. *M.D., Harvard, 1932*

ASSISTANT CLINICAL PROFESSORS

Alfred E. Brewer. *B.A., Columbia, 1937; M.D., New York University, 1941*
Henry Colcher. *C.S.N.M., Brussels, 1933; M.D., 1937*
Clarence J. D'Alton. *B.A., Yale, 1939; M.D., Columbia, 1943*
Richard B. Duane, Jr. *B.A., Princeton, 1940; M.D., Columbia, 1943*
Arthur W. Feinberg. *B.A., Columbia, 1943; M.D., 1945*
Albert W. Grokoest. *B.A., Hamilton, 1940; M.D., Columbia, 1943*
George A. Hyman. *B.A., Columbia, 1942; M.D., 1945*
Daniel L. Larson. *M.D., Columbia, 1946*
George H. McCormack. *B.S., Holy Cross, 1945; M.D., Columbia, 1949*
Jay I. Meltzer. *B.A., Princeton, 1949; M.D., Columbia, 1953*
Robert P. Noble. *B.A., Williams, 1936; M.D., Columbia, 1940*
Richard J. Stock. *B.S., Yale, 1944; M.D., Columbia, 1947*
Cornelius J. Tyson. *B.A., Princeton, 1939; M.D., Columbia, 1943*
Earl A. Wheaton, Jr. *B.A., Princeton, 1950; M.D., Columbia, 1954*

ADJUNCT ASSISTANT PROFESSOR OF BIOCHEMISTRY

Liese L. Abell. *Ph.D., Frankfurt, 1935*

ASSOCIATES

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Helen M. Anderson
Leslie Baer
J. Wright Barry
Geraldine P. Bradley
John M. Daley
Robert H. DeBellis
Juan Edreira
Dorothy Estes
Charles Faverio
George C. Hennig
Hilary H. Holmes
Paul K. Johnson
James A. Kennedy
Marvin M. Lipman
Kenneth A. McClane
William M. Manger
Carmen I. Ortiz Neu
Paul E. Phillips
Henry M. Thomas III
Joseph G. Sweeting

RESEARCH ASSOCIATES

Katharine J. Baker
Sunder S. Bora
David H. K. Chui
Jaime B. Coelho
Barbara S. Jones
Katsuro Koike

RESEARCH ASSOCIATE IN BIOCHEMISTRY

Ildiko Radichevich

INSTRUCTORS

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Gustav J. Beck
Martin Bloomfield
Peter A. Cassileth
Daniel S. J. Choy
Henry P. Colmore
Neal J. Conan, Jr.
Lloyd Fisher
Claudio Gerbi
Lionel Grossbard
Robert H. Heissenbuttel
James A. Hogan
Elliott J. Howard
Donald M. Kanter
Terrence T. Kuske
Robert W. Lightfoot
Arnold L. Lisio
William P. Lovejoy
James A. L. Mathers
Frank M. Muggia
Eduardo R. Pons, Jr.
Edith B. Reilly
Arthur I. Snyder
T. Lloyd Tyson

INSTRUCTORS IN MEDICAL SOCIAL WORK

Jean E. Collard
Agnes D. Dilworth

ASSISTANTS

Howard J. Barnum
John T. Beatty

ASSISTANTS (*continued*)

Raphael Belanger
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PROFESSORS

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PROFESSORS OF CLINICAL OTOLARYNGOLOGY

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Milan Kovar. *M.D., Charles (Prague), 1949*

ASSISTANT PROFESSOR OF CLINICAL OTOLARYNGOLOGY

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Ruth C. Harris. *B.A., Barnard, 1937; M.D., Columbia, 1943*
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Lattes, Robert G. *Harlem Hospital, New York, N.Y.*
Li Volsi, Virginia A. *Presbyterian Hospital, New York, N.Y.*
Lieber, William A. *Roosevelt Hospital, New York, N.Y.*
Liebowitz, Jerome H. *Mount Zion Hospital, San Francisco, Calif.*
Lisle, Robert W. *St. Vincent's Hospital, New York, N.Y.*
Long, James T. *Los Angeles County General Hospital, Los Angeles, Calif.*
Lundquist, Roger A. *Roosevelt Hospital, New York, N.Y.*
Maun, Richard A. *San Francisco General Hospital, San Francisco, Calif.*
Mazzullo, John M. III *Harlem Hospital, New York, N.Y.*
Menendez, Carlos *Presbyterian Hospital, New York, N.Y.*
Merriam, Walter W. *Presbyterian Hospital, New York, N.Y.*
Michelsen, Christopher *Presbyterian Hospital, New York, N.Y.*
Moore, Anne *New York Memorial Hospital, New York, N.Y.*
Moskovitz, Peter A. *George Washington General Hospital, Washington, D.C.*
Nash, Irwin *Yale New Haven Medical Center, New Haven, Conn.*
Newell, Michael E. *San Diego County University Hospital, San Diego, Calif.*
Ogundipe, Olufemi O. *Montefiore Hospital, New York, N.Y.*
Pao, David S.C. *Washington Hospital Center, Washington, D.C.*
Peterson, Charles M. *Harlem Hospital, New York, N.Y.*
Polachek, John W. *Montreal General Hospital, Montreal, Can.*
Pollack, James A. *Massachusetts General Hospital, Boston, Mass.*
Price, Trevor R. P. *University of California Hospitals, San Francisco, Calif.*
Przybyla, Andrew C. *Bronx-Lebanon Hospital, New York, N.Y.*
Pulito, Andrew R. *University of Virginia Hospital, Charlottesville, Va.*
Reichert, William W. *Mary Hitchcock Memorial Hospital, Hanover, N.H.*
Reiffel, James A. *Presbyterian Hospital, New York, N.Y.*
Reza, Robert J. *Presbyterian Hospital, New York, N.Y.*
Rollefson, Dorothy A. *Bernalillo County Hospital, Albuquerque, N.M.*
Rosenberg, Lawrence E. *San Francisco General Hospital, San Francisco, Calif.*
Rosenglick, Arthur R. *Harlem Hospital, New York, N.Y.*
Rundles, Charlotte *Bellevue-New York University Hospital, New York, N.Y.*
Saari, George J. *King County Hospital, Seattle, Wash.*
Santomauro, Anthony G. *Passavant Memorial Hospital, Chicago, Ill.*
Schwarz, Robert D. *Royal Victoria Hospital, Montreal, Can.*
Sculco, Thomas P. *Roosevelt Hospital, New York, N.Y.*
Sholem, Steven L. *Roosevelt Hospital, New York, N.Y.*
Southwick, William H. *Mary Imogene Bassett Hospital, Cooperstown, N.Y.*
Stasiuk, Demetrius *Los Angeles County General, Los Angeles, Calif.*
Steere, Allen C., Jr. *St. Luke's Hospital, New York, N.Y.*
Stevenson, Charles S. *St. Luke's Hospital, New York, N.Y.*
Stingle, Walter H. *Roosevelt Hospital, New York, N.Y.*
Thorley, Jeffrey D. *Bernalillo County Hospital, Albuquerque, N.M.*
Tittle, Kenneth M. *Beth Israel Hospital, Boston, Mass.*
Titzler, Robert P. *Hennepin County General Hospital, Minneapolis, Minn.*
Tucker, William M. *Roosevelt Hospital, New York, N.Y.*
Turner, Dennis *Harlem Hospital, New York, N.Y.*
Vincent, Roger P. *University of Minneapolis Hospital, Minneapolis, Minn.*
Weinstein, Samuel *Presbyterian Hospital, New York, N.Y.*
Weisberg, Jeffrey A. *Mount Sinai Hospital, New York, N.Y.*
Weyman, Albert K. *Strong Memorial Hospital, Rochester, N.Y.*
Wiederhorn, A. Roger *Presbyterian Hospital, New York, N.Y.*

Williams, John C. *University of Pennsylvania Hospital, Philadelphia, Pa.*
Wilson, Hugh D. *Mary Hitchcock Memorial Hospital, Hanover, N.H.*
Wolferstan, Martin *Charity Tulane Div. Hospital, New Orleans, La.*
Workum, Fifield, Jr. *Bernalillo County Hospital, Albuquerque, N.M.*
Wylie, John V. *Presbyterian Hospital, New York, N.Y.*
Yeh, Josephine C. *IVth George Washington University Hospital, Washington, D.C.*
Yount, Billy G., Jr. *University of Chicago Clinics, Chicago, Ill.*

Class of 1970

Albro, Peter Carey — Warsaw, N.Y.
B.A., Hamilton, 1966
Balch, T. Stephen — Toledo, Ohio
B.A., Northwestern, 1966
Benoit, Kenneth George — Spencer, Mass.
B.A., Columbia, 1966
Berger, Michael Dean — Glen Cove, N.Y.
B.A., Colgate, 1966
Bergman, William Leslie — Westbury, L.I., N.Y.
B.A., Amherst, 1966
Blank, Howard Lawrence — Brooklyn, N.Y.
B.A., Columbia, 1966
Bogdasarian, John Robert — Binghamton, N.Y.
B.A., Harvard, 1966
Bordley, James, IV — Cooperstown, N.Y.
B.A., Yale, 1965
Boucher, Richard Charles — Sacramento, Calif.
B.A., Yale, 1966
Brown, Arthur Stuart — New York, N.Y.
B.A., Cornell, 1956
Brown, George Clifford — Old Greenwich, Conn.
B.A., Yale, 1966
Brunn, Frederick Milton, Jr. — Madison, N.J.
B.A., Lafayette, 1966
Buchanan, Steven Clyde — Little Rock, Ark.
B.A., Columbia, 1966
Budetti, Peter Paul — Hollywood, Fla.
B.A., Notre Dame, 1966
Burks, John Mallory — Bedford, Va.
B.S., Davidson, 1966
Burton, David A. — Orem, Utah
Brigham Young
Carlson, Richard Gunnar — West Hartford, Conn.
B.S., Trinity, 1966
Carmichael, Daniel Herbert — Birmingham, Ala.
B.A., Princeton, 1966
Carson, Dennis Anthony — New York, N.Y.
B.A., Haverford, 1966
Cassidy, Bruce Alan — Rosedale, N.Y.
B.A., Queens, 1966
Chang, Paul — Baldwin, N.Y.
B.A., Harvard, 1966
Charlesworth, David Chandler — Plainfield, N.J.
B.S., Trinity, 1966
Cinberg, James Zubow — New York, N.Y.
B.A., Dartmouth, 1966
Cole, Stephen Adams — Stratton, Vt.
B.A., Cornell, 1961
M.A., Harvard, 1964
Combs, Robert Lawson — Cheverly, Md.
B.A., Lafayette, 1966
Cooper, Candace Wentworth — Rochester, N.H.
B.A., Smith, 1966
Corcoran, David Michael — Washington, D.C.
B.A., Princeton, 1966
Cross, Alan Whittemore — Princeton, N.J.
B.A., Yale, 1966
Dickinson, Philemon — Waterbury, Conn.
B.A., Princeton, 1964
Dilley, Russell Stephen — Nashville, Tenn.
B.S., Yale, 1966
Dingeldein, George Peter — Greensboro, N.C.
B.A., North Carolina, 1966
Esposito, John Louis — Portland, Me.
B.A., Bowdoin, 1966
Fauer, Ronald Barry — West Orange, N.J.
B.A., Franklin and Marshall, 1966
Foulks, Gary Neal — Salt Lake City, Utah
B.A., Columbia, 1966
Fried, Jane Eliot — Brewster, N.Y.
B.A., Vassar, 1964
Furgang, Fred Arnold — Bronx, N.Y.
B.A., New York University, 1966
Goldwater, W. Eugene — New York, N.Y.
B.A., Harvard, 1966
Goodman, Neil Franklin — Brooklyn, N.Y.
B.A., Cornell, 1966
Gratwick, Geoffrey Mason — Woodbury, Conn.
B.A., Harvard, 1965

Greenberg, Harry Bernard Rye, N.Y.
B.A., Dartmouth, 1966
Gusberg, Richard Jefferson Dobbs Ferry, N.Y.
B.A., Yale, 1966
Gustavson, Paul Frederick, Jr. Cresskill, N.Y.
B.S., M.I.T., 1966
Guthrie, Gordon Page, Jr. Fairfield, Conn.
B.S., Yale, 1966
Guy, Matthew Joel Brooklyn, N.Y.
B.A., Brooklyn, 1966
Hazard, William Lawrence New York, N.Y.
B.A., Yale, 1966
Hein, Karen Kramer Great Neck, N.Y.
B.A., Wisconsin, 1966
Helming, Charles Vernon Amherst, N.Y.
B.S., Yale, 1965
Henderson, I. Craig Sac City, Iowa
B.A., Grinnell, 1963
Hickey, Paul Robert Wayne, Me.
B.A., Yale, 1966
Hoche, John Philip Winter Park, Fla.
B.S., Massachusetts Institute of Technology, 1966
Hofmann, Peter L. New York, N.Y.
B.A., New York University, 1963
Howe, Edmund Grant Sarasota, Fla.
B.A., Yale, 1966
Jones, Edward Clyde Old Greenwich, Conn.
B.A., Colgate, 1964
M.A., Wesleyan, 1966
Kasparek, Sally J. Wichita, Kans.
B.A., Wichita State, 1961
M.A., Columbia, 1966
Kates, Richard Joel Newton, Mass.
B.A., Princeton, 1966
Kohl, Steve Brooklyn, N.Y.
B.S., City College of the City University of New York, 1966
Kronenberg, Gretchen Blair Derry, Pa.
B.A., Bryn Mawr, 1966
Kronenberg, Henry Morris Cleveland, Ohio
B.A., Harvard, 1966
Lang, Soren David Kankakee, Ill.
B.A., Yale, 1966
Leichtling, Jonathan Jacob New York, N.Y.
B.S., Trinity, 1966
Li, Florence Chang Chungking, China
B.A., Mount Holyoke, 1964
M.A., Columbia, 1968
Liberman, Arthur Roy West Orange, N.J.
B.A., Rutgers, 1966
Lichtenberg, Stephen Brook Bedford Hills, N.Y.
B.A., Swarthmore, 1966
Lipson, Diane Teaneck, N.J.
B.A., Pennsylvania, 1966
Lorico, Danne Roy New York, N.Y.
B.S., Manhattan, 1966
Lundberg, Walter B. Ridgewood, N.J.
B.A., Hamilton, 1966
Madigan, John Callanan Birmingham, Mich.
B.A., Georgetown, 1966
Massie, Barry Michael St. Louis, Mo.
B.A., Harvard, 1966
McFarlane, William R., Jr. Nashville, Ind.
B.A., Earlham, 1965
McMath, Jonathan Clark Royal Oak, Mich.
B.A., Brown, 1966
Middleton, Robert Stacy Wayne, N.J.
B.A., Princeton, 1966
Moyer, Peter Hatt Franconia, N.H.
B.A., Harvard, 1966
Mudge, Gilbert Horton Lyme, N.H.
B.A., Amherst, 1966
Norris, Tom Randolph Fort Worth, Tex.
B.A., Princeton, 1966
Nowygrod, Roman Brooklyn, N.Y.
B.A., Harvard, 1966
Osborn, Harold Holmes Hamden, Conn.
B.A., Yale, 1966
Parry, Michael Frank Loma Linda, Calif.
B.A., Yale, 1966
Patterson, Thomas Holden Valley Stream, N.Y.
B.A., Colgate, 1966
Pepe, Anthony John Flushing, N.Y.
B.S., St. John's, 1966
Pessar, Linda Faith Philadelphia, Pa.
B.A., Wellesley, 1966
Peterson, Phillip Keith Chicago, Ill.
B.A., St. Olaf, 1965
Provine, Martha Monson New York, N.Y.
B.A., Mount Holyoke, 1965
Quest, Donald Oliver St. Louis, Mo.
B.S., Illinois, 1961
Ramsey, William Henry Oak Ridge, Tenn.
B.A., Dartmouth, 1967
Raviola, Carol Ann Schenectady, N.Y.
B.A., Mount Holyoke, 1966
Rice, Thomas Audet Palo Alto, Calif.
B.S., Massachusetts Institute of Technology, 1966
Richardson, William Waddle, Jr. Seattle, Wash.
B.S., Washington, 1965
Riely, Caroline Armistead Richmond, Va.
B.A., Mount Holyoke, 1966
Rodman, John Stephen New York, N.Y.
B.A., Columbia, 1966
Rothenberg, Ronald Neil Far Rockaway, N.Y.
B.A., Lehigh, 1966
Sarnoff, Karen Ann Roslyn Heights, N.Y.
B.A., Cornell, 1966

Schachtel, Bernard Pinsker New York, N.Y.
B.A., Yale, 1966
Schmidt, Robert Milton Cudahy, Wis.
B.A., Northwestern, 1966
Self, E. Baldwin, Jr. Dobbs Ferry, N.Y.
B.A., Yale, 1966
Shafer, Stephen Quentin
Annandale-on-Hudson, N.Y.
B.A., Harvard, 1966
Singer, Mark Irwin Toledo, Ohio
B.A., Michigan, 1966
Siris, Samuel Gidding Penns Grove, N.J.
B.A., Lehigh, 1966
Sondheimer, Henry Melville
New York, N.Y.
B.A., Harvard, 1966
Sondheimer, Judith McConnell
Durham, N. H.
B.S., Swarthmore, 1966
Spiegel, Richard Marc Brooklyn, N.Y.
B.A., Pennsylvania, 1966
Spotnitz, Alan Jeffrey New York, N.Y.
B.A., Harvard, 1966
Starkebaum, Gordon Alan
Kennewick, Wash.
B.S., Washington, 1966
Tansey, William Austin, III Short Hills, N.J.
B.A., Yale, 1966
Tapper, Michael L. Forest Hills, N.Y.
B.A., Columbia, 1965
M.A., Columbia, 1966
Taylor, James Lane Dothan, Ala.
B.A., Columbia, 1966
Tice, Alan Douglas Mason City, Iowa
B.A., Harvard, 1966
Tindall, Richard Steven San Marino, Calif.
B.A., Southern California, 1966
Tucker, Susan Yarnall Cambridge, Mass.
B.A., Radcliffe, 1965
Wallach, Ronald Bayside, N.Y.
B.S., Tufts, 1966
Walworth, Edward Zinsser
New Canaan, Conn.
B.A., Princeton, 1966
West, Olin Leslie, III Haverford, Pa.
B.A., Princeton, 1962
Whittemore, Anthony Dunster
Cohasset, Mass.
B.S., Trinity, 1966
Wightman, Mark Austin Weston, Conn.
B.A., Yale, 1964
Woodcock, Thomas Mark Fredonia, N.Y.
B.S., Allegheny, 1966
Wrigley, Keith Allen, Jr. Sidney, N.Y.
B.A., Hamilton, 1964
M.A., Minnesota, 1966
Zakov, Zvetan Nikolov
Cleveland Heights, Ohio
B.A., Kenyon, 1966
Zimmerman, Andrew Walter
Harrisburg, Pa.
B.A., Princeton, 1966
Zuckerman, Alan Elliot Brooklyn, N.Y.
B.A., Brooklyn, 1966

Class of 1971

Ames, Elizabeth D. Highland Park, Ill.
B.A., Radcliffe, 1965
Apfel, Franklin Jay New York, N.Y.
B.A., Swarthmore, 1967
Avery, Gaylord James, II
Old Greenwich, Conn.
B.A., Yale, 1967
Baker, John Drayton Far Hills, N.J.
B.A., Princeton, 1967
Barnett, Jeffrey David Scarsdale, N.Y.
B.S., Tufts, 1967
Barrett, David Hale Santa Barbara, Calif.
B.A., Dartmouth, 1967
Bedwinek, John Morris Wheeling, W.Va.
B.A., Oberlin, 1967
Belgraier, Arnold Harvey New York, N.Y.
B.A., Boston, 1967
Berenberg, Richard Alan Brookline, Mass.
B.A., Harvard, 1967
Berkman, Alan Middletown, N.Y.
B.A., Cornell, 1967
Berkowitz, Fred Pittsburgh, Pa.
B.A., Washington & Jefferson, 1967
Braun, Jory Lewis Great Neck, N.Y.
B.A., Duke, 1967
Brensilver, Jeffrey Michael
Valley Stream, N.Y.
B.A., Columbia, 1967
Brown, Frederick Gordon West Orange, N.J.
B.A., Princeton, 1963
Bruno, Leonard A. Springfield, Pa.
B.A., Princeton, 1967
Buhl, Walter Richard Slayton, Minn.
B.A., Yale, 1967

Chambers, Richard Byron New York, N.Y.
B.S., City College of the City University of New York, 1967
Chodoff, Mark Edward Chevy Chase, Md.
B.S., Yale, 1967
Clyman, Ronald Ian Scarsdale, N.Y.
B.A., Amherst, 1967
Coe, Eric Harry Baton Rouge, La.
B.S., Massachusetts Institute of Technology,1967
Cohen, Daniel Elliot New York, N.Y.
B.A., Columbia, 1967
Conard, Frederick Underwood, III West Hartford, Conn.
B.A., Wesleyan, 1967
David, Sami Salim Great Neck, N.Y.
B.A., Columbia, 1967
deCiutiis, Alfred Charles New York, N.Y.
B.S., Fordham, 1967
De Jong, Russell Nelson, Jr. Ann Arbor, Mich.
B.S., Michigan, 1967
Dietzgen, Walter Anthony Highland Park, Ill.
B.A., Columbia, 1967
Doblin, Ellen Margaret Jamaica, N.Y.
B.A., Wellesley, 1967
Drew, Thomas Martin Barrington, R.I.
B.A., Wesleyan, 1967
Edoga, John Kingsley Westport, Conn.
B.A., Columbia, 1967
Eggers, Arnold Edwin New York, N.Y.
B.A., Columbia, 1967
Eggers, Howard Milliren New York, N.Y.
B.A., Columbia, 1967
Engleman, Edgar George San Mateo, Calif.
B.A., Harvard, 1967
Evans, James Folpmers Wilton, Conn.
B.A., Princeton, 1967
Fass, Steven Joshua New York, N.Y.
B.A., Hamilton, 1967
Fischer, William John Henry, III Providence, R.I.
B.A., Yale, 1966
Freese, Kenneth Jay New York, N.Y.
B.S., Hobart, 1967
Gann, Erik New York, N.Y.
B.A., Yale, 1967
Gluckman, Stephen John Roslyn, N.Y.
B.A., Brown, 1967
Goozner, Barry Edward North Woodmere, N.Y.
B.A., Johns Hopkins, 1967
Greene, Jonathan Isaac Paterson, N.J.
B.A., Pennsylvania, 1967
Gunther, Stephen Jerome Galesburg, Ill.
B.A., Illinois, 1967
Gustafson, Dennis Herbert Salt Lake City, Utah
B.A., Princeton, 1967
Halper, James P. Fresh Meadows, N.Y.
B.A., Columbia, 1965
Hammer, Mark Eugene Brentwood, Mo.
B.S., Yale, 1966
Harbison, William Arthur Princeton, N.J.
B.A., Oberlin, 1967
Hayashi, Curt Upper Nyack, N.Y.
B.A., Harvard, 1966
Hickes, Robert George Great Falls, Mont.
B.A., Columbia, 1967
Hill, George S., Jr. Anchorage, Ky.
B.A., Yale, 1966
Hinrichs, William Alden Douglas, Wyo.
B.S., Harvard, 1966
Holt, Joseph Williams, III Schenectady, N.Y.
B.A., Princeton, 1967
Iacobellis, Frank William Pelham Manor, N.Y.
B.A., Holy Cross, 1967
Icenhower, William B. Drexel Hill, Pa.
B.A., Princeton, 1962
Janowitz, Kenneth George New York, N.Y.
B.S., City College of the City University of New York, 1967
Johnson, Martin McDermid Brookings, S.D.
B.S., South Dakota, 1967
Jones, Charles Max Asheville, N.C.
B.A., North Carolina, 1968
Kachel, Richard Gary New York, N.Y.
B.A., Lehigh, 1967
Kelly, Edward Allen Atlanta, Ga.
B.A., Davidson, 1967
Kennedy, Timothy Chesney Tucson, Ariz.
B.A., Yale, 1965
M.A., Arizona, 1967
Koliner, Charles Michael Broomall, Pa.
B.S., U.S. Air Force Academy, 1966
M.S., Columbia, 1967
Lanning, Richard Cornforth Pittsburgh, Pa.
B.S., Stanford, 1967
Larsen, Gary Loy Wahoo, Neb.
B.S., Nebraska, 1967
Lazarus, George Mitchell Whitestone, N.Y.
B.A., Yale, 1967
Leavitt, Ronald Joel Great Neck, N.Y.
B.A., Brown, 1967
Lenke, Roger Rand Great Neck, N.Y.
B.A., Dartmouth, 1968
Lessey, Robert A. Wilmington, Del.
B.A., Yale, 1966
Levy, Mark Ivan West Hempstead, N.Y.
B.A., Columbia, 1967
Lincoln, Lawrence Jay Wilmington, Del.
B.S., Amherst, 1968

Logan, Bruce David Swampscott, Mass.
B.A., Colby, 1967
Lynch, Thomas John Hamilton, N.Y.
B.A., Colgate, 1967
Marshall, Robert Andrew Syracuse, N.Y.
B.A., Syracuse, 1967
Mayer, James William Santa Fe, N.M.
B.A., Colorado College, 1967
McCarthy, David Murray Madison, N.J.
B.A., Yale, 1967
McDougal, John Steven Grand Rapids, Mich.
B.A., Amherst, 1967
McNeil, George Neal, Jr. Weston, Mass.
B.A., Amherst, 1967
Meny, Robert George Fort Lauderdale, Fla.
B.S., Tulane, 1966
Migel, Peter Forshew Northfield, Ill.
B.A., Middlebury, 1967
Miller, Zachary Ian New York, N.Y.
B.A., Brandeis, 1967
Mithen, Francis Andrew Wells, Me.
B.S., Tufts, 1967
Moskowitz, Reed Craig Donovan New York, N.Y.
B.A., Columbia, 1967
Moulton, Anthony LeRoy Limerick, Me.
B.A., Bowdoin, 1967
Mouradian, William Henry New York, N.Y.
B.S., Trinity, 1968
Neill, Mather Humphrey, Jr. Manchester, Conn.
B.A., Amherst, 1967
Newman, John Hughes Nashville, Tenn.
B.A., Harvard, 1967
Obedzinski, John Eugene Syracuse, N.Y.
B.A., Colgate, 1967
Oster, Martin William New York, N.Y.
B.A., Columbia, 1967
Owens, Henry Howard Atlanta, Ga.
B.A., Princeton, 1967
Padula, Joseph P. New York, N.Y.
B.A., Princeton, 1967
Palfrey, Judith S. Cambridge, Mass.
B.A., Radcliffe, 1967
Palmer, Henry Ricketts Chicago, Ill.
B.A., Oberlin, 1966
Parkins, George Kyle Eldon, Mo.
B.A., Westminster, 1967
Pendleton, Eugene Banks Atlanta, Ga.
B.S., Davidson, 1967
Pickering, Richard Stephen Kearny, Ariz.
B.A., Utah, 1967
Pierce, Donald Alfred Greenville, N.C.
B.S., Yale, 1967
Popik, William Colman Redwood City, Calif.
B.A., Yale, 1967
Prendergast, John Clemons, Jr. Poultney, Vt.
B.A., Williams, 1967
Rand, Lawrence Ira New York, N.Y.
B.A., Columbia, 1966
Ratzan, Richard Martyn New York, N.Y.
B.A., Trinity, 1967
Ratzan, Susan K. Hoosiok Falls, N.Y.
B.A., Skidmore, 1967
Redmond, Geoffrey Plimsoll New York, N.Y.
B.A., Cornell, 1964
M.A., Virginia, 1965
Richman, Steven D. New York, N.Y.
B.A., Columbia, 1967
Roberts, Thomas Luther III Fort Lauderdale, Fla.
B.A., Duke, 1967
Ruckert, Gustave Theodore, IV Rochester, N.Y.
B.S., Trinity, 1967
Sauvigne, Arthur Emile Mineola, N.Y.
B.A., Providence, 1967
Savidge, George Paul Blue Hill, Me.
B.A., Princeton, 1967
Schaffner, Donald P. New York, N.Y.
B.S., Bucknell, 1969
Scheinman, Richard Paul Bronx, N.Y.
B.A., Swarthmore, 1966
Schermerhorn, John Joseph Ridgefield Park, N.J.
B.S., Fairleigh Dickinson, 1967
Schoenfeldt, Richard Scott Vandenberg A.F.B., Calif.
B.A., Claremont Men's College, 1967
Schulze, Robert Allison, Jr. Wilmington, Del.
B.A., Hamilton, 1967
Silverman, Ethel Martha Clifton, N.J.
B.A., Radcliffe, 1967
Slater, Eve Elizabeth Spring Lake, N.J.
B.A., Vassar, 1967
Smith, William McIntosh New York, N.Y.
B.A., College of Wooster, 1962
Soong, John Louis, Jr. Hong Kong, B.C.C.
B.A., Princeton, 1967
Southern, Darrell Loren Des Moines, Iowa
B.A., Iowa, 1967
Spellman, George Geneser, Jr. Sioux City, Iowa
B.A., Holy Cross, 1967
Sprenkle, Arthur Collin Canonsburg, Pa.
B.A., Columbia, 1967
Stark, Raymond Irwin Denver, Colo.
B.A., Columbia, 1963
Stone, Charles Lynn, Jr. Cold Spring Harbor, N.Y.
B.A., Yale, 1965
Sturges, Stephen Patterson Omaha, Neb.

Tubridy, Frank Joseph Kearny, N.J.
B.A., Yale, 1966
Vaughan, James Edward Binghamton, N.Y.
B.A., Hamilton, 1967
Wall, Alexander James, III Sturbridge, Mass.
B.S., Union, 1967
Weber, Collin James Audubon, Iowa
B.A., Princeton, 1967
Welch, Martha Grace Rye, N.Y.
B.A., New York University, 1966
White, Benjamin Winthrop St. James, L.I., N.Y.
B.A., Harvard, 1967
Wolcott, Patricia Lee Evanston, Ill.
B.A., Northwestern, 1967
Wood, Daniel Hopkins South Fort Mitchell, Ky.
B.A., Wesleyan, 1967
Zeller, Barbara Carol West Hartford, Conn.
B.A., Mount Holyoke, 1967

Class of 1972

Barkin, Neil Jay Great Neck, N.Y.
B.S., Union, 1968
Bell, Christopher Pember White Plains, N.Y.
B.A., Brown, 1967
Bessman, Joel D. Baltimore, Md.
B.A., Columbia, 1967
Black, Thomas Jeffrey Kenton, Ohio
B.S., Michigan, 1968
Bogdasarian, Michael Alan Binghamton, N.Y.
B.A., Michigan, 1968
Boucher, Charles Allen Flushing, N.Y.
B.A., Cornell, 1968
Bower, James Stephen Madison, Wisc.
B.S., Harvard, 1968
Boxer, Robert Alan Metuchen, N.J.
B.A., Rutgers, 1968
Cabot, Anthony Pelham Manor, N.Y.
B.A., Hobart, 1968
Carlson, Robert Howard Montclair, N.J
B.A., Columbia, 1968
Chan, Philip Oceanside, N.Y.
B.A., Harvard, 1968
Ciafone, Russell Anthony Huntington, N.Y.
B.A., Princeton, 1968
Clapp, Richard Waldo Lewiston, Me.
B.A., Dartmouth, 1967
Curtis, David Lambert Salt Lake City, Utah
B.A., Colgate, 1968
Curtis, John Ashton Haverford, Pa.
B.A., Hamilton, 1968
Daines, Joseph Gordon, Jr. Boise, Idaho
B.S., Utah, 1968
Dann, Francis Joseph New York, N.Y.
B.A., Columbia, 1968
Davis, George Fabyan New York, N.Y.
B.A., Harvard, 1968
Dickens, Michael Douglas Atlanta, Ga.
B.A., Princeton, 1968
Dienstag, Jules Leonard Forest Hills, N.Y.
B.A., Columbia, 1968
Dresdale, Robert Jay Brooklyn, N.Y.
B.A., Brown, 1968
Durbin, William Applebee, Jr. Wabon, Mass.
B.A., Dartmouth, 1968
Edelman, Stuart Edward Flushing, N.Y.
B.S., Trinity, 1968
Eisenstein, Barry Ira Woodmere, N.Y.
B.A., Kenyon, 1968
English, Woodruff Jones, II Summit, N.J.
B.A., Princeton, 1968
Evans, Jonathan Lynn Pittsburgh, Pa.
B.S., Grove City, 1969
Ferguson, Lucy Collins Cambridge, Mass.
B.A., Radcliffe, 1964
Finck, Arthur Donald Palisades, N.Y.
B.S., Lafayette, 1968
Finkelstein, Jay Nathan Coral Gables, Fla.
B.S., Columbia, 1965
M.S., New York University, 1967
Fleming, Richard Elliot, Jr. Chatham, N.J.
B.A., Princeton, 1968
Foster, Catherine Mary Minneapolis, Minn.
B.A., Barnard, 1968
Foster, Craig Richard Wilton, Conn.
B.A., Yale, 1968
Frankel, Martin Jay Freeport, N.Y.
B.A., Columbia, 1968
Friedman, Peter Laurence Clayton, Mo.
B.S., Oberlin, 1968
Gessinger, John Robert Ridgewood, N.J.
B.A., Princeton, 1968
Ginsberg, Harry Michael Quincy, Mass.
B.A., Boston, 1968
Glasier, James Crocker Loudonville, N.Y.
B.A., Princeton, 1963
Green, Kenneth Richard Chestnut Hill, Mass.
B.A., Bowdoin, 1968
Greenberg, Robert Samuel Princeton, N.J.
B.A., Yale, 1968

Guinther, Jay Paul Cranford, N.J.
B.A., Wesleyan, 1968
Hadler, James Loggins Washington, D.C.
B.S., McGill, 1968
Hamilton, Robert Hepburn Grosse, Pointe, Mich.
B.S., Michigan, 1968
Hamilton, Ross Teen St. Albans, N.Y.
B.A., Syracuse, 1968
Hammer, Scott Mel New York, N.Y.
B.A., Columbia, 1968
Harrison, Edward Webb, Jr. Princeton, N.J.
B.A., Princeton, 1965
Hasselbacher, Peter Allendale, Camp Hill, Pa.
B.A., Wesleyan, 1968
Haupert, Garner Tripp, Jr. Medford, Ore.
B.A., Harvard, 1968
Hayward, Arthur D'Alanson Sikeston, Mo.
B.A., Yale, 1968
Hayward, Malcolm Lloyd, Jr. Rosemont, Pa.
B.A., Trinity, 1968
Henry, Douglas Charles Huntington, N.Y.
B.S., Muhlenberg, 1968
Hicks, John Trimmer Ann Arbor, Mich.
B.S., Michigan, 1968
Hillis, Leslie David Tyler, Tex.
B.A., Columbia, 1967
Horwitz, Marcus Aaron Elmira, N.Y.
B.S., Cornell, 1968
Huber, Philip Joseph, Jr. Royal Oak, Mich.
B.A., Yale, 1968
Johnson, Lawrence Bernard Camden, N.J.
B.A., Brown, 1968
Kasch, John Adkins Northbrook, Ill.
B.S., Duke, 1968
Kemeny, Mary Margaret Elizabeth, N.J.
B.A., Radcliffe, 1968
Kessler, Bruce Edward Northfield, Vt.
B.S., Tufts, 1968
Korn, Joseph Howard New York, N.Y.
B.S., City College (New York), 1968
Latting, Clifton Alonzo Chicago, Ill.
B.S., Columbia, 1968
Lau, William Kien Ki Honolulu, Hawaii
B.A., Hawaii, 1968
Leland, Anne Bronson New York, N.Y.
B.A., Radcliffe, 1968
Link, Arthur Stanley, Jr. Princeton, N.J.
B.S., Davidson, 1968
Locke, Steven Eliot Englewood, N.J.
B.A., Cornell, 1968
Lotz, Michael Jay New York, N.Y.
B.A., Columbia, 1968
Lovell, Charles Frederick, Jr. Pilot Mountain, N.C.
B.A., Harvard, 1968
Lowy, Franklin David New York, N.Y.
B.A., Columbia, 1968
Malitz, Alan Jeffrey Scarsdale, N.Y.
B.S., Bucknell, 1968
Martindale, Peter Craig Newtown Square, Pa.
B.A., Johns Hopkins, 1968
Mathers, James Alexander Lamond, Jr. Englewood, N.J.
B.A., Bowdoin, 1967
Maulitz, Robert Marx Birmingham, Ala.
B.A., Harvard, 1968
Mayer, Thomas Roy Milwaukee, Wisc.
B.S., Wisconsin, 1968
McGreevy, Thomas Michael Vandalia, Ohio
B.S., Dayton, 1968
McGuire, Michael Francis St. Louis, Mo.
B.A., Columbia, 1968
McNeill, Douglas Hugh Briarcliff Manor, N.Y.
B.A., Hamilton, 1968
Menotti, Robert Amel Fayetteville, N.Y.
B.A., Syracuse, 1968
Mickell, John Joseph Peekskill, N.Y.
B.S., Manhattan, 1968
Miller, Wayne Alexander Homewood, Ill.
B.S., Michigan, 1968
Mintz, Jesse Michael West Hempstead, N.Y.
B.A., Rochester, 1968
Newmark, Michael Ede San Antonio, Tex.
B.A., Columbia, 1968
Newton, Leslie Stanz Wauwatosa, Wisc.
B.A., Yale, 1968
Norton, Larry Valley Stream, N.Y.
B.A., Rochester, 1968
Packard, William Michael Dansville, N.Y.
B.A., Hamilton, 1968
Pancoast, Stephen Joseph Manchester, N.H.
B.A., New Hampshire, 1968
Parmer, William Brent Great Neck, N.Y.
B.A., Columbia, 1968
Parry, Lynn Pasadena, Calif.
B.A., Vassar, 1966
Plakun, Eric Martin Laurelton, N.Y.
B.A., Hofstra, 1968
Porter, Robert Joseph, Jr. Rochester, N.Y.
B.A., Princeton, 1968
Pynoos, Robert Sydney Los Angeles, Calif.
B.A., Harvard, 1968
Reeves, Glen Irving Weiser, Idaho
B.A., Columbia, 1968
Reiffel, Robert Siskind Scarsdale, N.Y.
B.A., Yale, 1968
Resor, Stanley Rogers, Jr. Washington, D.C.
B.A., Yale, 1967
Robinson, Harry John, Jr. Short Hills, N.J.
B.S., Bucknell, 1968
Romney, Benjamin Mayer Mamaroneck, N.Y.
B.A., Dartmouth, 1969

Rousell, Charles Hiebert Buhler, Kans.
B.A., Harvard, 1968
Ryder, Robert Winsor Winchester, Mass.
B.A., Middlebury, 1968
Sacks, Linda Mann Philadelphia, Pa.
B.A., Pennsylvania, 1968
Schoene, Robert Brown Columbus, Ohio
B.A., Princeton, 1968
Scotton, Bruce Warren Urbana, Ill.
B.S., Illinois, 1968
Seale, William Boyer Port Arthur, Tex.
B.A., Colorado College, 1968
Sedlacek, Keith Wayne Valley Forge, Pa.
B.A., Harvard, 1966
Seplowitz, Alen Harvey Bronx, N.Y.
B.A., Columbia, 1968
Severinghaus, John Merrill Scarsdale, N.Y.
B.A., Princeton, 1968
Shaw, Peter K. Shaker Heights, Ohio
B.S., Muhlenberg, 1968
Shiftan, Thomas Andre Scarsdale, N.Y.
B.A., Virginia, 1968
Sigmond, Mark Bevers Northbrook, Ill.
B.A., Yale, 1968
Singal, Sarah Snell Rochester, N.Y.
B.A., Wellesley, 1968
Singer, Alfred Port Jervis, N.Y.
B.S., Massachusetts Institute of Technology, 1968
Slate, Jerome Lawrence Quincy, Mass.
B.A., Pennsylvania, 1968
Slutsky, Lawrence Joel Bayside, N.Y.
B.A., Trinity, 1968
Southwick, Frederick Seacrest New Haven, Conn.
B.A., Yale, 1968
Spear, Susan Manhasset, N.Y.
B.A., Wellesley, 1968
Spevack, Susan Gail New Rochelle, N.Y.
B.A., Skidmore, 1967
Stanton, Robert Alan Great Neck, N.Y.
B.A., Williams, 1968
Stelzer, Paul Edward Elk Creek, Neb.
B.A., Abilene Christian, 1968
Stoeckle, David Bruce Darien, Conn.
B.A., Amherst, 1968
Stone, Richard Alan Newtown Centre, Mass.
B.A., Harvard, 1968
Straus, Stephen Ezra Brooklyn, N.Y.
B.S., Massachusetts Institute of Technology, 1968
Sutphen, James Leonard Newark, Ohio
B.A., Wesleyan, 1968
Taylor, Steven James Ogden, Utah
B.A., Columbia, 1968
Tomecki, Kenneth Joseph Brooklyn, N.Y.
B.A., Columbia, 1968
Van der Ziel, Cornelia H. J. Minneapolis, Minn.
B.A., Radcliffe, 1968
Vinci, Joseph Manuel Middletown, Conn.
B.A., Wesleyan, 1968
Walls, Joan Catherine Binghamton, N.Y.
B.A., Mount Holyoke, 1967
Weeks, Lionel Edwards, III Rockville Centre, N.Y.
B.A., Williams, 1968
Weininger, Richard B. Whitestone, N.Y.
B.S., City College (New York), 1966
Weis, Lawrence David Prospect, Ky.
B.A., Wesleyan, 1968
White, Phyllis Jeanne Bronxville, N.Y.
B.A., Manhattanville, 1968
Woodward, Randolph Craig Baltimore, Md.
B.A., Yale, 1967

Class of 1973

Alexander, Charles Beatty Sewickley, Pa.
B.A., Princeton, 1969
Altman, Philip New York, N.Y.
B.S.E.E., City College (New York), 1969
Armstrong, Bruce Charlotte, N.C.
B.A., Haverford, 1969
Austin, Howard Albert, III New York, N.Y.
B.A., Yale, 1969
Barnard, William Lloyd, Jr. New York, N.Y.
B.A., Colgate, 1964
M.B.A., Rutgers, 1967
Bell, Edward Frank Washington, Pa.
B.A., Washington & Jefferson, 1969
Bellamy, Robert Edgar Sandusky, Ohio
B.S., Ohio State, 1968
Berglund, George Darrell Milwaukee, Wis.
B.A., Yale, 1969
Boyce, James Daniel Poultney, Vt.
B.A., Columbia, 1969
Brabbee, Gregory William Neenah, Wis.
B.A., Northwestern, 1969
Brown, Malcolm McDougal Lake Forest, Ill.
B.A., Yale, 1969
Bruen, Marian Anthon New York, N.Y.
B.A., Connecticut College, 1968
Calderbank, James Blake New Haven, Conn.
B.S., Yale, 1969

Carroll, David Stewart East Williston, N.Y.
B.A., Colgate, 1969
Chester, Alexander Campbell East Williston, N.Y.
B.S., Georgetown, 1969
Chiu, David Tak Wai Memphis, Tenn.
B.A., Missouri, 1969
Collins, Steven James Toledo, Ohio
B.A., Kenyon, 1969
Craig, Edward Vincent New Milford, N.J.
B.A., Princeton, 1969
Creelman, Kevin Bremerton, Wash.
B.S., Washington (Seattle), 1968
Custer, Lynn Alison Saddle River, N.J.
B.A., Mt. Holyoke, 1969
Daniels, Charles Wellman Syracuse, N.Y.
B.A., Yale, 1967
Davis, James Alan San Francisco, Calif.
B.A., California (Berkeley), 1969
Dean, Jurrien Hastings-on-Hudson, N.Y.
B.A., Columbia, 1969
Demarest, Gerald Birch III Westfield, N.J.
B.A., Colgate, 1969
DeNicola, Lucian Kenneth Manhasset, N.Y.
B.S., Bucknell, 1966
M.S., Bucknell, 1968
DeNisco, Anthony John New York, N.Y.
B.A., Columbia, 1969
DePasquale, Eugene Edward Southampton, N.Y.
B.A., Kenyon, 1969
Dericks, Gerald Henry, Jr. Tulsa, Okla.
B.A., Dartmouth, 1965
Dransfield, Douglas Alan Huntington, N.Y.
B.A., College of Wooster, 1969
Eckman, Bruce Kirkwood Pitman, N.J.
B.A., Princeton, 1969
Feinfeld, Linda Ellen Rye, N.Y.
B.A., Wisconsin, 1969
Finley, David H. Scarsdale, N.Y.
B.A., Johns Hopkins, 1969
Fraser, Patricia Ann New York, N.Y.
B.A., Manhattanville, 1969
Friedlander, Richard Paul Baltimore, Md.
B.A., Case Western Reserve, 1969
Friedman, Carol Lynn New York, N.Y.
B.A., Bryn Mawr, 1969
Gliklich, Jerry I. New York, N.Y.
B.A., Columbia, 1969
Goldberger, Mark Jay Perth Amboy, N.J.
B.A., Johns Hopkins, 1969
Greenberg, Roger Lee Denver, Colo.
B.A., Trinity, 1969
Grossbard, Elliott New York, N.Y.
B.A., Columbia, 1969
Grundfest, Sharon Frieda Belleville, N.J.
S.B.E.E., Massachusetts Institute of Technology, 1969
Hacken, Joan Beck Dobbs Ferry, N.Y.
B.A., Barnard, 1964
Hacker, Peter Sam New Hyde Park, N.Y.
B.S., Tufts, 1969
Hakes, Thomas Brion Indianapolis, Ind.
B.S., Rose Polytechnic Institute, 1967
Halsted, Douglas Oliver Cresskill, N.J.
B.A., Dartmouth, 1969
Handwerger, Richard Michael New York, N.Y.
B.A., Hunter, 1968
Hawkins, Katherine Ann Greenwich, Conn.
B.A., Manhattanville, 1969
Herbert, John Thomas Williamson, N.Y.
B.A., Columbia, 1969
Heyman, Richard Benjamin North Plainfield, N.J.
B.A., Columbia, 1969
Hoffmann, Peter Robert Teaneck, N.J.
B.A., Columbia, 1969
Huskins, Dennis George Hempstead, N.Y.
B.A., Wesleyan, 1968
Hutcheon, David Forbes Livingston, N.J.
B.A., Yale, 1969
Johnson, Sara Jane Southampton, N.Y.
B.A., Smith, 1968
Kalter, Joshua Orlinoff Holyoke, Mass.
B.A., Yale, 1969
Kaye, Jefferson James Coral Gables, Fla.
B.A., Duke, 1969
Keddington, Robert Samuel Salt Lake City, Utah
B.S., Utah, 1969
Kvam, David Adolph Litchfield, Minn.
B.S., St. Olaf, 1969
Lake, Alan Shanley Blackfoot, Idaho
B.A., Columbia, 1967
Leahey, Edward Berry, Jr. South Nyack, N.Y.
B.A., Fordham, 1969
Leahy, Dennis Robert Wilmette, Ill.
B.A., Princeton, 1969
Leimert, Joseph Thompson Hohokus, N.J.
B.A., McGill, 1969
Lipton, Mitchel Alfred West Orange, N.J.
B.A., Rutgers, 1969
Lombardo, John Wynne New York, N.Y.
B.A., Columbia, 1969
LoPresti, Vincent C. New York, N.Y.
B.A., Columbia, 1969
Luken, Martin Gerard, III Chicago, Ill.
B.S., Georgetown, 1969
Lupovici, Mihai Z. New York, N.Y.
B.A., New York University, 1969
Lynn, Stephan Gordon Hammond, Ind.
B.A., Swarthmore, 1969

Lyons, David Chandler Kenilworth, Ill.
B.A., Yale, 1965
M.B.A., Harvard, 1967
McAuliffe, Vincent Joseph Teaneck, N.J.
B.S., Boston College, 1969
McClelland, Shearwood Junior Gary, Ind.
B.A., Princeton, 1969
Macomber, Donald III New Orleans, La.
B.A., Colgate, 1969
McConnell, Robert John Whitesboro, N.Y.
B.A., Hamilton, 1969
McCuen, Brooks Walton DeWitt, N.Y.
B.A., Hamilton, 1969
McLanahan, Charles Scott Farmington, Mich.
B.A., Yale, 1969
McLean, Edward Righter, Jr. Greenville, Del.
B.A., Princeton, 1969
Makrauer, Frederick Lang Boston, Mass.
B.A., Princeton, 1969
Mascitelli, Robert Joseph New York, N.Y.
B.A., Holy Cross, 1970
Mattison, Donald Roger Minneapolis, Minn.
B.A., Augsberg, 1966
Mears, John Gregory Buffalo, N.Y.
B.S., Trinity, 1969
Meehan, Thomas Charles Bergenfield, N.J.
B.S., Fairfield, 1969
Mezaraups, Gunar Gundis Cincinnati, Ohio
B.A., Columbia, 1969
Michelson, Eric Lee Philadelphia, Pa.
B.A. and M.S., Pennsylvania, 1969
Mook, Carolyn Ives Cooperstown, N.Y.
B.A., Smith, 1969
Myerberg, David Zell Baltimore, Md.
B.A., Princeton, 1969
Myers, Alexander Gordon Needham, Mass.
B.A., Harvard, 1965
Nissenblatt, Michael Jeffrey Peekskill, N.Y.
B.A., Washington & Jefferson, 1970
Okamoto, Emi New York, N.Y.
B.A., Mount Holyoke, 1969
O'Neill, Donald Andrew Shelter Island, N.Y.
B.A., Columbia, 1969
Pepkowitz, Samuel Herschel Lewiston, N.Y.
B.A., Johns Hopkins, 1969
Peteet, John Raymond Atlanta, Ga.
B.S., Wheaton, 1969
Pierson, Eric William Neligh, Nebr.
Pines, Jeffrey Martin Tenafly, N.J.
B.A., Columbia, 1969
Platt, Tan Jackson Easton, Md.
B.S., Trinity, 1969
Powlis, William Davenport New York, N.Y.
B.S., City College (New York), 1969
Rapisardi, Nancy Jeanne Colorado Springs, Colo.
B.A., Radcliffe, 1969
Raskind, Wendy Herlihy New York, N.Y.
B.A., Pembroke, 1964
Rau, Dean William Willmar, Minn.
B.A., Harvard, 1968
Ress, Richard R. Teaneck, N.J.
B.A., Princeton, 1969
Richardson, Allen Barrister Honolulu, Hawaii
B.A., Yale, 1969
Riehle, Robert Arthur, Jr. Cincinnati, Ohio
B.A., Yale, 1969
Rogers, Linda M. New York, N.Y.
B.A., Manhattanville, 1966
Rosenfeld, Jonathan Eliot New York, N.Y.
B.A., Columbia, 1969
Rubin, George Henry New York, N.Y.
B.A., New York University, 1969
Ruskin, Frederic Leonard Scottsdale, Ariz.
B.A., Stanford, 1967
Santamaria, Jaime New York, N.Y.
B.S., Cooper Union, 1969
Santulli, Robert Beverley New York, N.Y.
B.A., Yale, 1969
Saunders, Richard Ames New York, N.Y.
B.A., Dartmouth, 1969
Savage, Robert Thornton Louisville, Ky.
B.S., Yale, 1968
Schwartz, Richard Lawrence Plainview, N.Y.
B.A., Pennsylvania, 1969
Sherman, William Merritt Ogdensburg, N.Y.
B.S., Hamilton, 1969
Sherrid, Mark Victor New York, N.Y.
B.A., Cornell, 1969
Speert, David Paul Scarsdale, N.Y.
B.A., Middlebury, 1969
Spencer-Green, George Thomas Kenton, Ohio
B.A., Oberlin, 1969
Stewart, James Richard McMurray, Pa.
B.A., Brown, 1969
Stockman, Mark Brian Marblehead, Mass.
B.A., Harvard, 1969
Straus, John Herbert New York, N.Y.
B.A., Harvard, 1968
Syracuse, Donald Charles Centerport, N.Y.
B.A., Dartmouth, 1969
Tabor, Edward Bethesda, Md.
B.A., Harvard, 1969
Taub, David Joel Plainfield, N.J.
B.A., Harvard, 1969
Theodore, William Harold New York, N.Y.
B.A., Harvard, 1969
Thornton, Yvonne Shirley Long Branch, N.J.
B.S., Monmouth, 1969
Tornberg, David Norman Gales Ferry, Conn.
B.S., U.S. Naval Academy, 1964

Trelstad, Donald Axton Salem, Ore.
B.A., Columbia, 1969
Untereker, William Joseph Tenafly, N.J.
B.A., Williams, 1968
Verrilli, John Loftus White Plains, N.Y.
B.A., Pennsylvania, 1969
Von Hoff, Daniel Douglas DePere, Wis.
B.S., Carroll (Wisconsin), 1969
Watson, Neill Pat III Raleigh, N.C.
B.A., Yale, 1969
Webb, Michael Terry Pittsburgh, Pa.
B.A., Bowdoin, 1969
Weiss, Allen Stanley Philadelphia, Pa.
B.A., La Salle, 1969
West, Robert Bernard Chappaqua, N.Y.
B.A., Princeton, 1968
Whitsett, Jeffrey Allen Chesterland, Ohio
B.A., Colgate, 1969
Wild, Wayne Simeon New York, N.Y.
B.A., Columbia, 1968
Williams, Philip Copelain, Jr. Chicago, Ill.
B.S., Yale, 1969
Wrobleski, Daniel Edward Holyoke, Mass.
B.S., Trinity, 1969
Yackulic, Charles Fred Bellevue, Wash.
B.A., Columbia, 1969

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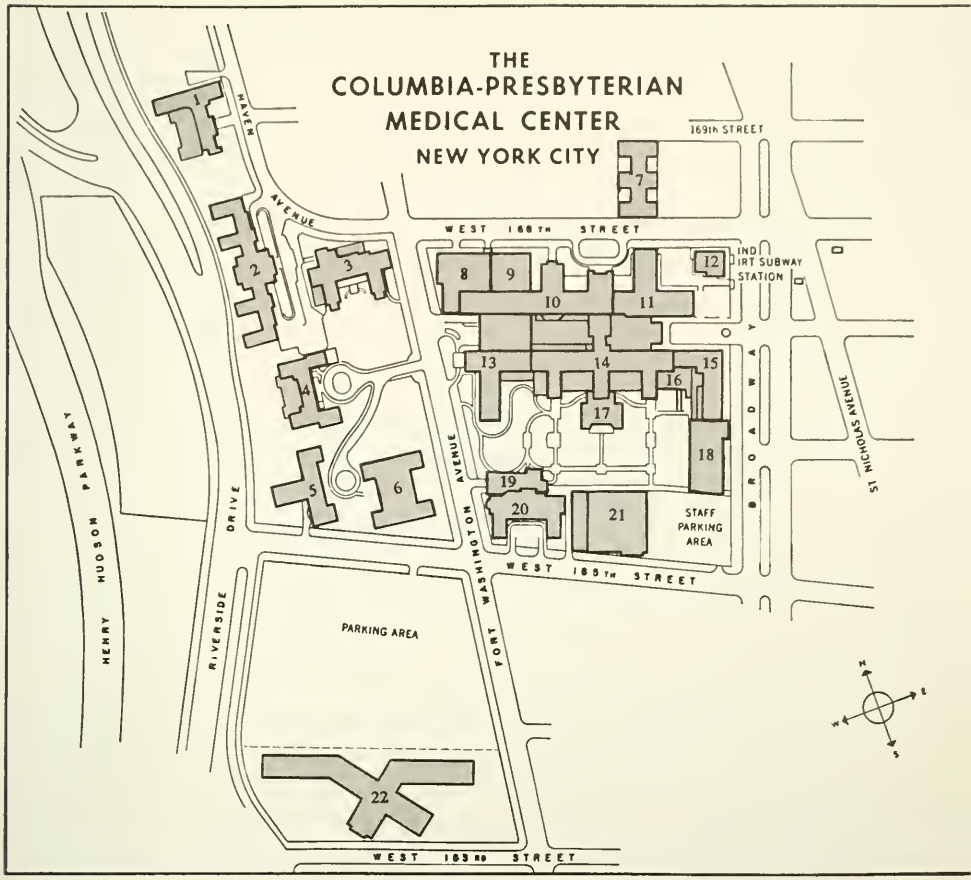

1. BARD HALL
2. N.Y. STATE PSYCHIATRIC INSTITUTE
   PSYCHOANALYTIC CLINIC
3. NEUROLOGICAL INSTITUTE OF NEW YORK
4. MAXWELL HALL
5. HARKNESS MEMORIAL HALL
6. DANA W. ATCHLEY PAVILION
7. GEORGIAN NURSES RESIDENCE
8. WILLIAM BLACK MEDICAL
   RESEARCH BUILDING
9. ALUMNI AUDITORIUM
10. COLLEGE OF PHYSICIANS & SURGEONS
11. VANDERBILT CLINIC
    SCHOOL OF DENTAL AND ORAL SURGERY
12. DEPARTMENT OF HEALTH
    SCHOOL OF PUBLIC HEALTH AND
    ADMINISTRATIVE MEDICINE
    WASHINGTON HEIGHTS HEALTH
    CENTER, N.Y.C.
13. HARKNESS PAVILION
14. PRESBYTERIAN HOSPITAL
    N.Y. ORTHOPEDIC HOSPITAL
    SLOANE HOSPITAL
    SQUIER UROLOGICAL CLINIC
15. BABIES HOSPITAL
16. RADIOTHERAPY CENTER
17. PAULINE A. HARTFORD MEMORIAL
    CHAPEL
18. BABIES HOSPITAL RESEARCH,
    TEACHING, AND OFFICE
    ADDITION
19. INSTITUTE OF OPHTHALMOLOGY
    ADDITION
20. INSTITUTE OF OPHTHALMOLOGY
21. CENTRAL SERVICE BUILDING
22. FRANCIS DELAFIELD HOSPITAL,
    N.Y.C.

To Reach the Medical Center: By subway, the Washington Heights Express of the IND Eighth Avenue or the Van Cortland Park train of the IRT Seventh Avenue. By bus, Fifth Avenue Bus #4 or #5. By car, the Westside Highway exit at the George Washington Bridge. Parking facilities are available at West 164th Street and Fort Washington Avenue.

To Columbia Students

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Columbia University Bulletin

THE FACULTY OF MEDICINE

College of Physicians & Surgeons

1970–1971

Inquiries

Please address inquiries to:

DEAN OF THE FACULTY OF MEDICINE
630 WEST 168TH STREET
NEW YORK, N. Y. 10032
Telephone: (Area code 212) 579–2500

Other bulletins of the Faculty of Medicine:

Nursing (including the Graduate Programs in Maternity Nursing and in Psychiatric-Community Mental Health Nursing)
Nutrition Sciences
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Psychoanalytic Clinic for Training and Research
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The Faculty of Medicine of Columbia University

College of Physicians & Surgeons

1970-1971

William J. McGill, Ph.D. *President of the University*

Polykarp Kusch, Ph.D., Sc.D. *Vice President and Dean of Faculties of the University*

Peter B. Kenen, Ph.D. *Provost of the University*

Paul A. Marks, M.D. *Vice President in Charge of Medical Affairs; Dean of the Faculty of Medicine*

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Academic Calendar, 1970-1971

May	21–22	Thursday–Friday. Registration, including payment of fees, for third- and fourth-year classes.
June	1	**Monday. Academic year begins for the fourth-year class.**
	8	**Monday. Academic year begins for the third-year class.**
Aug	2	Monday. Last day to apply or reapply for all degrees and certificates to be conferred in October. Students who apply after this date must pay a late fee.
Sept	10–12	Thursday–Saturday. Registration, including payment of fees, for first- and second-year classes.
	14	**Monday. Classes begin for first- and second-year classes.**
Oct	1	Thursday. Last day to file dissertations for the Med.Sc.D. degree to be awarded in October.
Nov	3	Tuesday. Election Day. Holiday.
	26–28	**Thursday–Saturday. Thanksgiving holidays.**
Dec	1	Tuesday. Last day to apply or reapply for all degrees and certificates to be awarded in February. Students who apply after this date must pay a late fee.
	21	**Monday, through January 2, 1971, Saturday. Christmas holidays.**
Jan	29	Friday. Last day to apply for Cutting and Ellis Fellowships.
Feb	22	Monday. Washington's Birthday. Holiday.
Mar	1	Monday. Last day to apply or reapply for all degrees and certificates to be conferred in June. Students who apply after this date must pay a late fee.
Apr	5–10	**Monday–Saturday. Easter holidays.**
May	1	Saturday. Last day to file dissertations for the Med.Sc.D. degree to be conferred in June.
	31	Monday. Memorial Day. Holiday.
June	1	**Tuesday. Conferring of degrees.**

The Faculty of Medicine

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View of Bard Hall from Riverside Drive

Columbia-Presbyterian Medical Center

The College of Physicians and Surgeons

The College of Physicians and Surgeons is guided by the principle that medical education is university education—the creation of an atmosphere in which ideas grow and minds are disciplined. The acquisition of knowledge and skills is important in professional education, but far more vital is a profound understanding of the science, the art, and the ethic within which both knowledge and skill are applied. As a part of Columbia University, the College builds its curriculum, selects its officers of instruction, and marshals its enormous resources of equipment and clinical experience to develop in the student this understanding of medicine. Within the curriculum for the M.D. degree is the fundamental knowledge upon which later specialization is built, and from which the natural bent is discovered toward general or special practice, or toward research, teaching, or administration. The postgraduate programs of the College provide training in the specialties, help the graduate physician to keep abreast of new knowledge, and support the research from which this knowledge develops.

HISTORY OF THE COLLEGE AND THE UNIVERSITY

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The American Revolution interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine in course. The first graduates in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May 1769 and that of Doctor of Medicine in May 1770 and May 1771, respectively. Instruction in medicine was given until interrupted by the Revolution and the occupation of New York by the British, which lasted until November 25, 1783. In 1784 instruction was resumed in the academic department, and in December of the same year the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; from that time on the diplomas of the graduates were signed by the President of Columbia College as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the college was incorporated as an integral part of the University. Since September 1917 women have been admitted to the College on the same basis as men.

Columbia-Presbyterian Medical Center

The Medical Center was opened in the spring of 1928, seven years after the establishment of a permanent affiliation between Columbia University and the Presbyterian Hospital. It consists of the following units: the divisions of the University Faculty of Medicine (the College of Physicians and Surgeons, the Department of Nursing, the School of Public Health and Administrative Medicine); the University School of Dental and Oral Surgery; the Presbyterian Hospital and its subdivisions; the New York State Psychiatric Institute; Francis Delafield Hospital; and the Washington Heights Health and Teaching Center.

The Medical Center occupies a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. It comprises about twenty acres extending from West 165th Street to West 168th Street and from Broadway to Riverside Drive, and is readily accessible from all parts of the city. A map of the Medical Center is given on the inside back cover.

The College of Physicians and Surgeons is at 630 West 168th Street between Broadway and Fort Washington Avenue in a seventeen-story, fire-resisting, steel, brick, and concrete building, each floor of which connects with the wards and services of the Presbyterian Hospital.

THE PRESBYTERIAN HOSPITAL

Founded in 1868, the hospital now occupies a twenty-two-story building in which are the wards of the medical and surgical services, the Sloane Hospital for Women, and the Squier Urological Clinic. To provide for personal contact between doctor and patient, the hospital is divided into floor units of between 60 and 70 beds. Harkness Pavilion for private patients is connected with the main building. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the Hospital on nomination by the Trustees of the University. There are 1,523 beds.

Presbyterian Hospital has the following subdivisions:

Squier Urological Clinic occupies the tenth floor of the Presbyterian Hospital building and the tenth floor of Babies Hospital. There are 67 beds for the care of adults and 20 beds for babies and children. There are laboratories fully equipped to do diagnostic, x-ray, microbiological, pathological, fluoroscopic, and research work. The clinic has two large, specially equipped operating rooms. The urological outpatient department, situated in Vanderbilt Clinic, is fully equipped for cystoscopic, x-ray, and laboratory work.

The Institute of Ophthalmology was made possible by the generosity of Edward S. Harkness. The hospital and laboratories for the study of diseases of the eye are active in the training of physicians and nurses. The hospital contains 28 ward beds.

Harkness Pavilion, which contains 299 beds, is available for the accommodation of private patients of the attending staff.

Sloane Hospital for Women, originally at West 59th Street and Amsterdam Avenue, was presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now occupies three floors of the Presbyterian Hospital building for ward and semiprivate patients and two floors of the Harkness Pavilion for private patients. The wards of the hospital furnish 118 beds for obstetrical and gynecological patients. Patients, other than emergencies, are admitted to the hospital through Vanderbilt Clinic. The deliveries in the hospital number about 3,500 a year.

Vanderbilt Clinic, presented by the Vanderbilt family to Columbia University in 1888, is the outpatient department common to all the hospitals in the Medical Center. It is a fully equipped dispensary for the economically less privileged. The professors of the College, with their assistants, have charge of its professional services. The building is so arranged that each department has rooms for practical instruction in small sections. All modern appliances for the treatment of disease are available, so that the students can learn thoroughly the use of all methods in each of the special departments of medicine. A Group Clinic, which was organized in Vanderbilt Clinic in 1946, has proved to be a forward step in the treatment of patients as well as of great value in the teaching of fourth-year medical students.

Babies Hospital provides for general medical and surgical care of infants and children up to and including twelve years of age. One floor of the hospital is devoted to the care of private and semiprivate patients. Three floors are equipped with laboratories. Both outdoor and indoor playrooms are provided for convalescent children. The total capacity of the hospital is 198 beds. Laboratories are operated for the routine and research work of the hospital in pathology, microbiology, and chemistry. An outpatient department is maintained in Vanderbilt Clinic by the visiting and house staff of the hospital. In addition to the general medical and surgical clinics, there are special clinics for the care of premature infants and for patients suffering from heart disease, tuberculosis, epilepsy, asthma, and other disorders.

Neurological Institute, one of the first nongovernmental hospitals in this country for the treatment of nervous diseases, was founded in 1909. The original building at 149 East 67th Street was occupied continuously up to March 1929, when the Institute was moved to the Medical Center. This move has made possible the development of a broad basic program of teaching and research in neurology and in the treatment of the sick in the affiliated units of the Medical Center. The present hospital has 98 ward beds and is devoted exclusively to the treatment of diseases of the nervous system and surgical conditions of the brain and nervous system. Facilities are provided for bedside teaching in the wards for both undergraduate and graduate students.

New York Orthopaedic Hospital, established in 1868, was consolidated with the Presbyterian Hospital in 1945. It was moved to the Columbia-Presbyterian Medical Center in December 1950 and is now an integral part of the Presbyterian Hospital and the College. It has 67 ward beds. Facilities are available for the care and treatment of orthopedic conditions and fractures in children and adults. Teaching laboratories are provided in the College.

NEW YORK STATE PSYCHIATRIC INSTITUTE

A 174-bed hospital built and maintained by the state of New York, the Institute provides for the study and treatment of all types of psychiatric disorders. There are special facilities for the treatment of children presenting behavior and personality problems. Connected with the hospital is an active outpatient department providing diagnostic and treatment facilities. The hospital maintains special clinical and research laboratories and an extensive psychiatric library. The members of the hospital staff have teaching appointments in the Department of Psychiatry and take an active part in the instruction of the medical students.

FRANCIS DELAFIELD HOSPITAL

The Delafield Hospital, built and maintained by the City of New York, is a 261-bed limited general hospital with emphasis on the treatment and study of cancer. A program of research and of graduate and undergraduate instruction in the malignant diseases is conducted here under the terms of an agreement with the City of New York whereby Columbia University nominates the entire professional staff. The hospital is equipped with three floors of laboratories for research and has a modern outpatient department and up-to-date facilities for all methods of study and treatment of cancer.

OTHER HOSPITALS USED FOR TEACHING

Mary Imogene Bassett Hospital, in Cooperstown, New York, is affiliated with the University for the teaching of medicine and surgery. It has 96 beds.

Harlem Hospital, in the Department of Hospitals of New York City, was founded in 1887. It has 873 beds. The facilities are used for the special teaching of residents and students.

Roosevelt Hospital, established in 1864, is a general hospital containing 558 beds. Its facilities are used in the teaching of medicine and surgery to undergraduate and postgraduate students.

St. Luke's Hospital, established in 1850, contains 718 beds, including 45 beds for children. It is affiliated with the University for the teaching of undergraduates, and all services participate in the program of graduate medical education.

MEDICAL LIBRARY

The Medical Library occupies parts of the three lower floors of the College building. It provides current literature (both books and journals) for faculty members and students, and it aids in research through its own collections of current and historical works, through interlibrary loans, and through its unique bibliographic service.

The library contains approximately 300,000 volumes of books and journals, some 5,000 pamphlets, and about 2,000 lantern slides on the history of medicine. More than 4,500 periodicals are received regularly. A professional library staff is available to aid students, faculty members, and research workers in the schools and hospitals of the Medical Center.

The libraries on the Morningside campus, which contain over 4,000,000 volumes, are open to all students. They include collections on biology, chemistry, physics, psychology, sociology, and other subjects related to medicine and supplement the special collections available in the Medical Library. Books and journals may be borrowed for home use. The main collection is housed in Butler Library, while special and departmental collections are located in various other buildings on the campus.

The Medical Library is open Monday through Friday, from 8:30 a.m. to 11 p.m.; Saturday, from 9 a.m. to 5 p.m.; and Sunday, from 12 noon to 10 p.m. during the academic year. All other libraries post their hours.

BARD HALL

Bard Hall, at 50 Haven Avenue overlooking Riverside Park and the Hudson River, is the residence for men and women students of the College. Its facilities include lounges, a cafeteria and several dining rooms, and a gymnasium with facilities for swimming, basketball, squash, and other sports.

The Program of Instruction

The objective of the recently revised program is to provide students with an environment in which they can develop a sense of responsibility for their continuing education. In addition to learning the basic skills essential to the modern physician-scientist, time is designated to allow full development of each individual's special talents and needs. Curricular flexibility, the methods by which medical knowledge is acquired and evaluated, an early exposure to clinical material through demonstrations and correlation clinics, and greater use of small group teaching are among the program changes which have received special emphasis.

The first year is devoted to basic science courses with frequent correlation clinics intended as a vehicle by which basic science material may be related to medical problems. Following the summer vacation, basic science courses are continued for one semester of the second year with the addition of interdepartmental courses in abnormal human biology and in an introduction to the evaluation of patients and their problems.

The next full year, the major clinical year, is applied exclusively to a rotation of clerkships in the clinical disciplines. Under close supervision, the student is helped to develop attitudes, skills, knowledge, and habits applicable to a wide variety of clinical disorders. The primary educational aims are to help the student to elicit an accurate and comprehensive history, to carry out complete and thorough physical examinations, to develop an understanding of the mechanisms involved and the various ways in which common patterns of disease affect the human being, to learn the principles necessary to reach valid clinical and diagnostic appraisals and effective therapeutic plans, and to acquire consideration and perceptiveness in the handling of patients.

The final semesters, with the inclusion of some vacation periods, are devoted primarily to clinical and basic science electives. These are arranged individually, and with flexibility, so as to prepare students to meet a variety of needs and goals, and to permit the use of the resources of the entire University, of affiliated hospitals as well as of programs elsewhere. Combined programs, courses in multiple disciplines, advanced clinical clerkships, and research are all possible during this period.

In addition, the regular program may be interrupted to permit up to a full year of research, for which fellowships are available.

RESEARCH OPPORTUNITIES

The importance of clinical and laboratory investigation by the student is stressed Students are encouraged to engage in some definite research project during their elective year, or may arrange a full year on their original investigation rather than proceed with the next regularly assigned academic year. Stipends are available for research fellowships of this kind.

MEDICAL SCIENTIST TRAINING PROGRAM

Application to this program is open to a limited number of students after acceptance to medical school or following the completion of their early years of study. This program is designed for those interested in an eventual career in academic medicine, teaching, and research. The curriculum includes all the essential courses leading to the M.D. degree, modified to special needs, as well as special courses and seminars in basic and clinical sciences. Usually after the basic science period, each student is expected to spend two years in study and research in his chosen field. Faculty advisers are assigned to the students. A flexible program of financial support is provided.

► COURSES OF INSTRUCTION AND RESEARCH

For purposes of instruction, the basic science years are divided into semesters, the major clinical year into quarters, and the elective period into months.

All students who are not regularly matriculated for the degree of Doctor of Medicine must obtain the permission of the instructor in charge before registering for any course. Only a small number of doctoral candidates are accepted because of limitations in space and facilities.

The College reserves the right to make changes in the program of studies and courses of instruction at any time.

GRADES AND PROMOTION

Students are evaluated in terms of comments regarding their performance and professional attitudes. Official records indicate only whether they have passed or failed.

A student may be advanced to the next academic year of the medical course or be allowed to repeat a year only upon the recommendation of the faculty members under which he studied during the previous year. Students are classified under the following headings: (1) recommended for advancement; (2) recommended for readmission to the same class; (3) recommended for neither advancement nor readmission. The Faculty of Medicine reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited for study in the College.

KEY TO COURSE NUMBERS

Medical Center courses: The suffixes F, S, and T refer to the three semesters of the basic science period.

Numbers with no suffix indicate courses of the major clinical year covering a period of twelve weeks or less and being repeated to multiple-class groups.

BASIC SCIENCE (THREE SEMESTERS)

Anatomy 101F. Microscopic anatomy, human anatomy, and embryology
The departmental staff.

Anatomy 102S. The structure and function of the nervous system
Drs. Carpenter and Noback (*Anatomy*).
Lectures, demonstrations, and laboratory.

Biochemistry 101F. Introductory biochemistry
The departmental staff.

Genetics 101T.
Dr. Marks and associates.

Medicine 101FS. Correlation clinics
Drs. Taggart and Herter.
Series of clinics illustrating the application of basic science to the understanding of disease mechanisms.

Medicine 102T. Introduction to the patient
Dr. Aranow and associates.
Includes physical diagnosis as well as patient approach.

Medicine 103T. Abnormal human biology
Dr. Rifkind and interdepartmental associates.
An integrated approach to human pathophysiology; clinical pathology and clinical microscopy are included.

Microbiology 101S. General medical microbiology and immunology
The departmental staff.

Pathology 101S. General and special pathology and neuropathology
Dr. King and the departmental staff.

Pharmacology 101T. General and special pharmacology
The departmental staff.

Physiology 101. Human physiology
The departmental staff.

Psychiatry 101FS. Human behavior
Drs. Michels, Dohrenwend, Sours, and Wilkie.

Psychiatry 102T. Psychiatric preceptorship
Drs. Frazier, Carr, and Kornfeld.

Public Health 101T. Parasitic diseases
Dr. Williams and staff.
The protozoa, helminths, and arthropods of medical significance.

Surgery 101T. Introduction to surgery
Dr. Wiedel and staff.

MAJOR CLINICAL YEAR

Anesthesiology 201. Practical anesthesiology and seminars
Dr. Ngai and staff.

Dermatology 201. Dermatology and syphilology
Drs. Nelson and Sanders and staff.

Medicine 201. Ward clinical clerkship in medicine
Dr. Tapley (*in charge*) and staff.

Neurology 201. Ward clinical clerkship in neurology
Dr. Masland and the staff at the Neurological Institute.

Neurology 202. Neurosurgery
Dr. Pool.
Included in neurology clerkship.

Obstetrics and Gynecology 201. Clinical clerkship in theory and practice of obstetrics and gynecology
The departmental staff.
Includes anatomy and physiology of the pelvic organs, pregnancy and the mechanisms of normal labor, complications of pregnancy, and the diagnosis and management of gynecological disorders.

Ophthalmology 201. Practical instruction in ophthalmology
The departmental staff. At Vanderbilt Clinic and the Institute of Ophthalmology.

Orthopedic Surgery 201. Practical instruction in orthopedics, including fractures and dislocations
Dr. Stinchfield and staff.

Otolaryngology 201. Practical instruction in the diseases of the ear, nose, and throat
Dr. Baker and staff. At Vanderbilt Clinic.

Pediatrics 201. Introduction to pediatrics: clinical clerkship
Dr. Mellin and staff. At Babies Hospital.
Includes the study of diseases of infants and children; their growth and development and maintenance of their health.

Psychiatry 201. Clerkship in psychiatry
Dr. Michels and the clinical faculty. At New York State Psychiatric Institute and Presbyterian Hospital.

Public Health 201. Preventive and administrative medicine, forensic medicine and medical jurisprudence, and community medicine
The departmental staff.

Radiology 201. Diagnostic radiology (medical)
Dr. Seaman and staff.

Radiology 202. Diagnostic radiology (surgical)
Dr. Seaman and staff.

Rehabilitation Medicine 201.
Dr. Darling and staff.

Surgery 201. Clinical clerkship in surgery
Dr. Herter and staff.

Surgery 202. Lectures and demonstrations in surgical pathology
Dr. Lattes and staff.

Urology 201. Practical instruction and clinical clerkships in urology
Dr. Lattimer and staff.

ELECTIVE YEAR

A wide selection is possible in virtually every department, on the University campus and elsewhere, in any of the following categories: combined basic science-clinical electives, advanced clerkships, additional clinical electives, courses in a variety of disciplines, and research programs. Students, with the counsel of their advisers, may select many different electives or focus on one or more areas. Among popular programs are subinternships in the major disciplines; added experience in the clinical specialties; involvement in such fields as trauma, emergency care, comprehensive ambulatory care, metabolism and endocrinology, cardiology, respiratory problems, public health and community projects, drug abuse and alcoholism, hematology, oncology, kidney disease, radiology, and many others. An elective in medicine in the tropics is available to fourth year students who serve for two months in hospitals in Bolivia, Liberia, Nigeria, Surinam, or Taiwan.

The electives in the various departments are listed below.

ANATOMY

Cell biology
Four months. Dr. Dempsey and staff.

ANESTHESIOLOGY

Advanced clerkship
One to three months. At Presbyterian Hospital. Dr. C. C. Wolf.

Respiratory care of surgical patient
One month. At Presbyterian Hospital. Drs. Karis and Sullivan.

Subinternship in diseases of chest and respiratory care
One or two months. At Roosevelt Hospital. Drs. Andree, Schaffeld, and Yeoh.

Advanced clerkship in anesthesiology and neuropharmacology
One or two months. Dr. Ngai and staff (*Anesthesiology*) and Dr. S. C. Wang and staff (*Pharmacology*).

Advanced clerkship in anesthesiology and cardivascular pharmacology
Three to six months. Dr. Ngai and staff (*Anesthesiology*) and Dr. B. F. Hoffman and staff (*Pharmacology*).

Electrophysiology of heart and clinical anesthesia for open heart surgery
Three to six months. Dr. Sullivan and staff (*Anesthesiology*) and Dr. B. F. Hoffman and staff (*Pharmacology*).

BIOCHEMISTRY

Introductory biochemistry, I
Fifteen weeks. Dr. Sprinson.

Introductory biochemistry, II
Fifteen weeks. Dr. Sprinson.

Selected topics in physical biochemistry
Fifteen weeks. Dr. A. Gold.

Seminar in biochemistry of hormones
Fifteen weeks. Dr. Lieberman.

Stereochemistry of the macromolecules
Two months. Dr. Low.

Introduction to x-ray crystallography
Fifteen weeks. Dr. Low.

Seminar in selected topics in biochemistry
Fifteen weeks. Dr. Sprinson.

Chemistry of intermediate metabolism
Fifteen weeks. At Morningside campus. Dr. Eisenberg.

General biochemistry
Fifteen weeks. At Morningside campus. Dr. Krasna.

Research in biochemistry
Periods to be arranged. Dr. Sprinson.

Elective in biochemistry of proteins
Two to three months. At Mary Imogene Bassett Hospital. Drs. Peters and Warren.

DERMATOLOGY

Externship in dermatology
One month. At Presbyterian Hospital. Dr. Nelson and staff.

Clinical clerkship
Four weeks. At Presbyterian Hospital. Dr. Nelson and staff.

Clinical dermatology
Four weeks. At St. Luke's Hospital. Dr. Young and staff.

HUMAN GENETICS AND DEVELOPMENT

Advanced human genetics
Both semesters. Dr. Rifkind and staff.

Seminar, human genetics and development
Both semesters. Dr. Spiegelman and staff.

Research in genetics and developmental biology
Periods to be arranged. Drs. Spiegelman, Marks, Rifkind, Bank, and staff.

MEDICINE

Advanced clinical clerkship
Two months. At Francis Delafield Hospital. Dr. Curran and staff.

Advanced clinical clerkship
One month. At Harlem Hospital. Dr. Ragan and staff.

Advanced clinical clerkship
One to three months. At Mary Imogene Bassett Hospital. Dr. Page.

Clinical clerkship in infectious diseases
One to three months. At Mary Imogene Bassett Hospital. Dr. Page.

Clinical clerkship in general services clinic
Four weeks. At Mary Imogene Bassett Hospital. Dr. Pollock.

Group clinic and Harkness Pavilion
Two months. At Presbyterian Hospital. Dr. Melcher and staff.

Clerkship in cardiorespiratory diseases
Four weeks. At Presbyterian and Harlem Hospitals. Attending staff.

Clinical electrocardiography
Eight one-hour lectures. Dr. M. I. Ferrer.

Endocrinology and metabolism
One month. Drs. Canfield and Frantz.

Gastroenterology
Two months. At Presbyterian Hospital. Drs. Barker, Flood, Sweeting, and staff.

Clinical hematology
One to three months. At Columbia-Presbyterian Medical Center and Francis Delafield and Harlem Hospitals. Dr. Rifkind and staff.

Clinical infectious diseases
One month. At Presbyterian Hospital. Dr. Neu and staff.

Rheumatic disease—immunology elective
One or two months. At Presbyterian Hospital, Vanderbilt Clinic, and the College of Physicians and Surgeons. Dr. LeRoy and staff.

Differential diagnosis
Mid-October to March, one hour a week. Dr. Wertheim.

History of medicine
Twelve weeks. Drs. Richards and Cournand.

Medical therapeutics and applied pharmacology
Fourteen weeks. The staff of the Departments of Medicine and Pharmacology.

Research in endocrinology and metabolism
Three or more months. Dr. Buchanan and staff.

Research hematology
Three or more months. Dr. Marks and staff.

Research in infectious diseases
Given monthly, for a minimum of ten weeks. Dr. Neu and staff.

Advanced clinical clerkship
One or two months. At Roosevelt Hospital. Dr. Christy and staff.

Subinternship in internal medicine
One or two months. At Roosevelt Hospital. Dr. Christy and staff.

Comprehensive care of the family
Two months. At Roosevelt Hospital. Dr. Iaquinta and staff.

The patient in crisis: emergency ambulatory care
Two months. At Roosevelt Hospital. Dr. Iaquinta and staff.

Alcohol and drug abuse
Two months. At Roosevelt Hospital. Dr. Iaquinta and staff.

Subinternship in clinical cardiology
One month. At Roosevelt Hospital. Dr. Dwyer and staff.

Clinical gastroenterology
One month. At Roosevelt Hospital. Dr. Attia and staff.

Clinical immunology and immunopathology
Two months. At Roosevelt Hospital. Dr. Fine and staff.

Subinternship in diseases of chest and respiratory care
Given by the Departments of Anesthesiology, Medicine, and Surgery. (See listing under *Anesthesiology*.)

Advanced clinical clerkship in medicine
One or two months. At St. Luke's Hospital. Dr. Van Itallie and staff.

Comprehensive ambulatory care in a neighborhood health service program
Two months. At St. Luke's Hospital Center and Community Health Service. Drs. Van Itallie and Armstrong.

Medical and epidemiologic management of communicable diseases
Two months. At St. Luke's Hospital. Dr. Van Itallie and staff.

Clinical cardiology
One to three months. At St. Luke's Hospital. Dr. Bell and staff.

Gastroenterology
Two months. At St. Luke's Hospital. Dr. Holt and staff.

Hematology and cell biology
One month. At St. Luke's Hospital. Dr. Bertles and staff.

Metabolism and endocrinology
One month. At St. Luke's Hospital. Dr. Hashim and staff.

Nephrology
One or two months. At St. Luke's Hospital. Dr. David and staff.

Gastroenterology research
Three to twelve months. At St. Luke's Hospital. Drs. Holt and S. B. Clark.

Gastroenterology research
Three to twelve months. At St. Luke's Hospital. Dr. Rosensweig.

Metabolism and endocrinology research
Two to six months. At St. Luke's Hospital. Dr. Hashim and staff.

MICROBIOLOGY

Advanced immunochemistry. Drs. Beiser, Howe, and Kabat. Given in alternate years; not given in 1970–1971.

Techniques in immunochemistry
Hours to be arranged. Drs. Beiser, Howe, and Kabat.

Virology
Semester. Drs. Godman, Harter, Howe, and Rose.

Techniques in virology
Hours to be arranged. Drs. Harter, Morgan, and Rose.

Microbial chemistry and metabolism. Drs. Erlanger and Tanenbaum. Given in alternate years; not given in 1970–1971.

Techniques in microbial metabolism
Hours to be arranged. Drs. Erlanger and Tanenbaum.

Microbial genetics
Semester. Drs. Beiser, Rosenkranz, and Vogel.

Techniques of microbial genetics
Hours to be arranged. Drs. Beiser, Rosenkranz, and Vogel.

Clinical bacteriology and serology
Semester. Drs. Ellner and Rose.

Techniques of clinical bacteriology and serology
Hours to be arranged. Drs. Ellner and Rose.

Mycology
Semester. Dr. Silva-Hutner (*Dermatology*).

Special topics in cell biology
Semester. Drs. Deitch, Godman, and Morgan.

Techniques in cell biology
Hours to be arranged. Drs. Deitch, Godman, and Morgan.

Research in microbiology
Hours to be arranged. The staff.

Seminar in clinical microbiology
Semester. Dr. Ellner.

Seminar in microbiology
Semester. The staff and guests.

NEUROLOGY

Senior clinical clerkship
Two months. At Harlem Hospital. Dr. Richter and staff.

Senior clinical clerkship
Two months. At Presbyterian Hospital. Dr. Yahr and staff.

Review of neurobiology
Two months. At Neurological Institute. Dr. Duvoisin and staff.

Clinical laboratory studies
Two or four months. At Neurological Institute, Presbyterian Hospital, the College of Physicians and Surgeons. Dr. Goldensohn and staff.

Clinical neurology
One or two months. At St. Luke's Hospital. Dr. Thomas and staff.

NEUROLOGICAL SURGERY

Neurological surgery combined clinical and basic science elective
One to three months. At Neurological Institute. Dr. Pool and staff.

OBSTETRICS AND GYNECOLOGY

Advanced clerkship in obstetrics and gynecology
One or more months. At Presbyterian Hospital. Dr. Steer and staff.

Perinatology
Four weeks. At Presbyterian Hospital. Dr. James and staff.

Clinical clerkship in obstetrics and gynecology
One month. At Roosevelt Hospital. Dr. Gause and staff.

Antenatal assessment of the fetus
One month. At Roosevelt Hospital. Dr. Davidson and staff.

Advanced clerkship in obstetrics and gynecology
Two months. At St. Luke's Hospital Center. Dr. Tovell and staff.

Research in steroid biochemistry and endocrinology
Two or more months. At St. Luke's Hospital Center. Dr. Kelly.

OPHTHALMOLOGY

Elective in clinical ophthalmology
Four to eight weeks. At Eye Institute. Dr. Day and staff.

Basic science elective in ophthalmology
Four to eight weeks. At Eye Institute. Dr. Smelser.

ORTHOPEDIC SURGERY

Advanced orthopedic clerkship
One or two months. At Presbyterian and St. Luke's Hospitals. Dr. Stinchfield (*Presbyterian*) and Dr. Thompson (*St. Luke's*).

Research in musculoskeletal problems
Two months. Given by the Departments of Biochemistry and Orthopedic Surgery. Drs. Bassett and Clark.

Advanced clerkship in trauma
One or two months. At Roosevelt Hospital. Drs. LaMotte, Patterson, and Parkes.

OTOLARYNGOLOGY

Clinical clerkship in otolaryngology
Two months. At Presbyterian Hospital. Dr. Baker and staff.

Surgery of the head and neck
Two months. At Presbyterian and St. Vincent's Hospitals. Drs. Conley and Rankow.

Temporal bone anatomy and microsurgery of the ear
Eight weeks. Dr. Basek and staff.

Research in auditory physiology
Eight weeks. Dr. Tonndorf and staff.

PATHOLOGY

The hospital practice of pathology
One month. At Mary Imogene Bassett Hospital. Drs. Hawn and Roberts.

Pathology—morphologic-clinical
Six weeks to three months. At Presbyterian Hospital. Dr. King and staff.

Career in pathology elective
Three to twelve months. Dr. King and staff.

Research in neurobiology, pathobiology, immunology, genetics, virology, and infectious disease
Three to twelve months. Dr. King and staff.

Clinical externships
Three months. Dr. King and staff.

Clinical clerkship in surgical pathology
One or two months. At Roosevelt Hospital. Dr. Garret and staff.

PEDIATRICS

Clinical elective in general pediatrics
One month. At Harlem Hospital. Dr. Kahn and staff.

Pediatrics elective
Four weeks. At Mary Imogene Bassett Hospital. Dr. Cannon and staff.

General pediatrics clinical elective
One month. Dr. Asnes and staff.

Pediatrics cardiology clinical elective
One month. At Babies and Presbyterian Hospitals. Drs. Levine and Gersony and staff.

Clinical pediatric endocrinology
One or two months. At Babies Hospital. Drs. Morishima and Bell.

Clinical pediatric hematology and oncology
One or two months. Given by the Departments of Pediatrics and Surgery. At Babies and Harlem Hospitals. Drs. Wolff and Santulli.

Pediatric infectious diseases
One month. At Babies Hospital. Drs. Curnen and Sprunt.

Pediatric kidney diseases
One or two months. At Babies Hospital. Dr. Winters and staff.

Chronic pulmonary problems in children and adolescents
One month. At Babies Hospital. Drs. Denning and Lifschitz.

Pediatric oncology, including chemotherapy
One or two months. At Babies Hospital. Drs. Santulli (*Surgery*) and Wolff (*Pediatrics*).

Perinatology
One or two months. At Babies Hospital. Dr. James.

Pediatric Radiology
One month. At Babies Hospital. Drs. Baker and Berdon.

Pediatric rehabilitation
One month. At Presbyterian and Blythedale Children's Hospitals. Given by the Departments of Pediatrics and Rehabilitation Medicine.

Subinternship in pediatric surgery
One or two months. At Babies Hospital. Dr. Santulli.

Cardiorespiratory physiology
Two months. Drs. Mellins and Levine.

Clinical chemistry
One or two months. At Babies Hospital. Drs. Strande and Winters.

Pediatrics cytogenetics
Two or three months. Dr. Morishima.

Renal and acid-base physiology
One or two months. Drs. Dell and Winters.

Subinternship in general pediatrics
One or two months. At Roosevelt Hospital. Dr. Abrams and staff.

Pediatric endocrinology, cytogenetics, and fetal development
Two months. At Roosevelt Hospital. Dr. Abrams.

Advanced clinical clerkship
One or two months. At St. Luke's Hospital. Dr. Moore and staff.

Introduction to infant and child nutrition
One month. At St. Luke's Hospital. Dr. Stevenson and staff.

PHARMACOLOGY

Decisions in diagnosis and treatment
Two months. Given by the Departments of Anesthesiology, Medicine, and Pharmacology.

Cardiovascular pharmacology
One month. Dr. Hoffman and staff.

Backgrounds in pharmacology
Ten weeks. Dr. Greenbaum.

Advances in pharmacology
Ten weeks. Dr. Greenbaum.

Advanced pharmacology
Ten weeks. Dr. Greenbaum.

Neurohypophysial hormones and salt and water balance
Two months. Dr. Sawyer.

Biosynthesis of steroid hormones
Six months. Dr. F. G. Hofmann.

Cardiac arrhythmias and conduction disturbances
Two months. Dr. B. F. Hoffman.

Excitation-contraction coupling in cardiac and smooth muscle
Three months. Dr. Bassett.

Neural control of salivation
Three months. Dr. Kahn.

Chemical mediators of inflammation
Periods to be arranged. Dr. Greenbaum.

Studies in neuropharmacology
Two months. Dr. S. C. Wang and associates.

Cardiovascular physiology and pharmacology
Three to six months. Dr. H. H. Wang.

PHYSIOLOGY

Biophysics of cell membranes
Fifteen two-hour seminars. Dr. Blank and staff.

Advanced topics in physiology and biophysics
Fifteen two-hour seminars. Dr. Taggart and staff.

PSYCHIATRY

Advanced clinical clerkship
One to three months. At Harlem Hospital. Dr. Davis and staff.

Advanced clinical clerkship
One to three months. At Presbyterian Hospital. Dr. Herz and staff.

Child psychiatry clerkship
One to three months. At Presbyterian and St. Luke's Hospitals. Drs. Langford and Wiener.

Liaison psychiatry
One or two months. At Presbyterian Hospital. Dr. Kornfeld.

Psychiatry: hypnosis
Two months. Dr. Spiegel.

Psychiatric research
One to three months. At New York State Psychiatric Institute. The departmental staff.

Subinternship in psychiatry
One or two months. At Roosevelt Hospital. Dr. Keill and staff.

Subinternship in community mental health
Two months. At Roosevelt Hospital. Dr. Keill and staff.

Urban mental health services
Two months. At Roosevelt Hospital. Dr. Keill and staff.

Structural psychiatry
Two months. At Roosevelt Hospital. Dr. Shands and staff.

Advanced clinical clerkship
One to three months. At St. Luke's Hospital. Dr. Feigelson and staff.

Community psychiatry and the disorganized urban family
Three months. At St. Luke's Hospital. Dr. Talbott and staff.

Emotional problems of the college student
Three months. At St. Luke's Hospital. Dr. Milici and staff.

Child psychiatry
One to three months. At St. Luke's Hospital. Dr. Wiener and staff.

PUBLIC HEALTH

Medicine in the tropics
Eight weeks. Dr. Katz and doctors abroad.

Diagnostic techniques for parasitic diseases
Two months. Dr. Hussey.

Introduction to medical entomology
Eight weeks. Dr. Williams.

Elementary biostatistics
One month. Drs. Fertig and Varma.

Advanced biostatistics
Six weeks. Drs. Fertig and Varma.

Principles of epidemiology
Sixteen weeks. Dr. Susser and staff.

Epidemiology: infectious diseases
One to two months. Dr. Cherubin.

Epidemiology: special studies
One or two months. Dr. Susser and staff.

Environmental health sciences: special studies
One to three semesters. Drs. Hoover and Jacobson and staff.

Seminar in legal medicine
Semester. Dr. Hoover and Mr. Werne.

Problem-solving in maternal and child health: the urban environment
Eight weeks. Dr. Downs.

Tutorial in maternal and child health
Sixteen weeks. Dr. Downs.

Tutorial in community health administration
Sixteen weeks. Dr. Hilleboe.

Principles of medical care administration
Eight weeks. Miss V. Brown.

Current topics in medical care
Eight weeks. Miss V. Brown.

Selected topics in development of medical care in the United States
Eight weeks. Dr. Mintz and staff.

Application of medical care research
Eight weeks. Mr. van Dyke and Miss Loewenstein.

Research techniques in administrative medicine
Sixteen one-hour sessions. Miss Loewenstein.

Community-social psychiatry: field trips
One day per week. Mrs. Goldart.

Psychiatry and the community
Eight to twenty-four weeks. Mrs. Goldart.

Contributions in social psychiatry
Eight weeks. Dr. Bauman.

Reading seminar in social psychiatry
First semester, two hours a week. Dr. Dohrenwend.

Mental health consultation
Eight weeks. Dr. Smith.

Interrelation of public health and mental health
Eight or sixteen weeks. Dr. Smith.

Health economics
Two hours a week. The staff of the division of sociomedical sciences.

Social foundations of health
Two hours a week. The staff of the division of sociomedical sciences.

Evaluation of action programs in health
One three-hour session a week. Dr. Elinson and staff.

Attitudes and behavior with significance for health
Two hours a week. Dr. Josephson.

The health professions
One and one-half hours a week. Dr. Colombotos and staff.

Social science research techniques applicable to public health and administrative medicine
Second semester. The staff of the division of sociomedical sciences.

Research: special studies
Second semester. Dr. Elinson.

RADIOLOGY

Diagnostic radiology
One month. Dr. Seaman and staff.

Clinical clerkship in diagnostic radiology
Three months. Dr. Seaman and staff.

Elective in radiotherapy
One month. Drs. Chang and Tretter.

Elective in nuclear medicine
One month. Drs. Johnson and Reilly.

Radiology of bones and joints
Three months. Dr. Alpert and staff.

Physics of diagnostic radiology
Eight weeks. Drs. Hilal and Seaman and staff.

Nuclear medicine
Eight weeks. Dr. Johnson and staff.

Radiology of gastrointestinal tract
Three days. Dr. Seaman and staff.

Clinical clerkship in radiology
One month. At Roosevelt Hospital. Dr. Dunn and staff.

Diagnostic radiology
One or two months. At St. Luke's Hospital. Dr. Finby and staff.

REHABILITATION MEDICINE

Clinical clerkship in rehabilitation medicine
One, two, or three months. At Presbyterian Hospital. Dr. Darling and staff.

Pediatric rehabilitation
Four weeks. At Blythedale Children's and Presbyterian Hospitals. Dr. Darling and staff.

Rehabilitation medicine—elective research
One to three months. Dr. Corcoran and staff.

SURGERY

Subinternship in general surgery
One or two months. At Francis Delafield Hospital. Dr. Gump and staff.

Laboratory assistantship in organ preservation
Two months. At Francis Delafield Hospital. Dr. Buda.

Clinical and laboratory assistantship in hemodialysis and transplantation
One or two months. At Francis Delafield Hospital. Dr. Buda.

Clinical and laboratory assistantship in cancer therapy and research
One or two months. At Francis Delafield Hospital. Dr. Buda.

Subinternship in general surgery
One or two months. At Harlem Hospital. Dr. Gump and staff.

Advanced clerkship in surgery
Two months. At Mary Imogene Bassett Hospital. Dr. Blumenstock and staff.

Experimental surgery: pathophysiologic response to surgery
Two months. At Mary Imogene Bassett Hospital. Dr. Blumenstock and staff.

Subinternship in general surgery
One or two months. At Presbyterian Hospital. Dr. Gump.

Subinternship in cardiac and thoracic surgery
One or two months. At Presbyterian Hospital. Dr. Gump and staff.

Subinternship in pediatric surgery
One or two months. At Babies Hospital. Dr. Gump and staff.

Subinternship in plastic and reconstructive surgery
One or two months. At Presbyterian Hospital. Dr. Crikelair and staff.

Surgical Pathology
Two months. Dr. Lattes and staff.

Pediatric oncology, including chemotherapy

One or two months. At Babies Hospital. Drs. Santulli (*Surgery*) and Wolff (*Pediatrics*).

Pediatric hematology and oncology

One or two months. At Babies Hospital. Drs. Wolff (*Pediatrics*) and Santulli (*Surgery*).

Gastroenterology

One month. At Presbyterian Hospital. Drs. Flood and Barker.

Surgical preceptorship

One month. In community hospitals outside New York City. Dr. Gump.

Laboratory assistantship

Two or three months. Dr. Price.

Research—mechanisms of gastrointestinal function

Eight weeks. Drs. Hiatt (*Surgery*) and I. Goodman (*Biochemistry*).

Biochemistry and biology of wound healing

Two or more months. Dr. Prudden.

Subinternship in general surgery

Two months. At Roosevelt Hospital. Dr. Wichern and staff.

Subinternship in cardiac surgery

One month. At Roosevelt Hospital. Dr. Yeoh and staff.

Subinternship in surgical trauma

One month. At Roosevelt Hospital. Dr. Wichern and staff.

Subinternship in diseases of chest and respiratory care

One or two months. At Roosevelt Hospital. Drs. Andree, Schaffeld, and Yeoh.

Clinical hand surgery

One month. At Roosevelt Hospital. Dr. Eaton and staff.

General clinical surgery

Two months. At St. Luke's Hospital. Dr. West and staff.

Clinical-basic science elective in cardiovascular and thoracic surgery

Two months. At St. Luke's Hospital. Dr. McCord and staff.

Surgical research

Four to six months. At St. Luke's Hospital. Dr. McCord and staff.

UROLOGY

Cancer of the urological tract
One month. At Francis Delafield Hospital. Dr. Veenema.

General urology
One month. At Harlem Hospital. Dr. Garnes.

Adult urology subinternship
One month. At Presbyterian Hospital. Dr. Lattimer and staff.

Pediatric urology subinternship
One month. At Presbyterian Hospital. Dr. Roberts and staff.

Human reproduction
Two months. At Central Family Planning Institute, New Delhi, India. Drs. Zinsser and Richart.

Practical urology—male, female, and pediatrics
One month. At U.S. Public Health Service Hospital, Staten Island, N.Y. Dr. Justice.

Combined advanced urological research and pathology
One month. Dr. Tannenbaum.

Research in physiological urology
One month. Dr. Mason.

Metabolic methods in renal calculus disease
Eight weeks. At Presbyterian Hospital. Dr. Zinsser.

► SUMMARY OF STUDIES (IN HOURS)

BASIC SCIENCE

	HOURS		HOURS
Anatomy 101F	232	Pathology 101S	182
Anatomy 102S	80	Pharmacology 101T	102
Biochemistry 101F	108	Physiology 101F	108
Genetics 101T	34	Psychiatry 101FS	69
Medicine 101FS	31	Psychiatry 102T	24
Medicine 102T	181	Public Health 101T	39
Medicine 103T	136	Surgery 101T	34
Microbiology 101S	126	TOTAL	1,486

MAJOR CLINICAL YEAR

	HOURS		HOURS
Anesthesiology 201	64	Psychiatry 201	85
Dermatology 201	17	Public Health 201	65
Medicine 201	330	Radiology 201	11
Neurology 201-202	192	Radiology 202	11
Obstetrics and Gynecology 201	192	Rehabilitation Medicine 201	10
Ophthalmology 201	18	Surgery 201	160
Orthopedic Surgery 201	64	Surgery 202	20
Otolaryngology 201	18	Urology 201	64
Pediatrics 201	192	TOTAL	1,513

► SPECIAL PROGRAMS

PROGRAMS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

A student may plan a sequential program leading to the award of both the M.D. and the Ph.D. degrees. He may begin such a program either in the College or under the Faculty of Pure Science, but he may not be registered in the two faculties concurrently. It is usually to his advantage to complete the requirements for the M.D. degree first, since some of the required medical courses and elective research opportunities may be credited toward the Ph.D. degree. A student interested in this program should consult the chairman of the basic science department in which he plans to major and the Associate Dean of the Faculty of Medicine.

A limited number of students may be accepted in the basic science departments of the College—Anatomy, Biochemistry, Microbiology, Pathology, Pharmacology, and Physiology—and in the Subcommittee on Biophysics (see below). Because of limited facilities only candidates for the Ph.D. degree are accepted. Work toward the degree in the basic science departments is under the jurisdiction of the Faculty of Pure Science of the University and must receive approval by the departmental chairman concerned. Admission and degree requirements and courses of instruction are given in the bulletin of the Graduate School of Arts and Sciences.

RESEARCH IN RESIDENCE

A graduate student who wishes to engage in special clinical or investigative work under the direction of a department may, with the approval of the Dean, register for research in residence (see the schedule of fees).

CURRICULA IN PHYSICAL THERAPY AND OCCUPATIONAL THERAPY

Educational programs leading to the Bachelor of Science degree in occupational therapy or physical therapy are offered by the Department of Rehabilitation Medi-

cine to students with a background of two years of college; the programs are approximately two years in length. Students who have already earned a baccalaureate degree may apply for admission to a one-year program leading to a professional certificate in physical therapy or to a two-year program leading to a Master of Science degree in occupational therapy. Details are given in the University bulletin *Courses in Physical Therapy and Occupational Therapy*.

PROGRAM OF THE PSYCHOANALYTIC CLINIC

A course of training in the theory and practice of psychoanalytic medicine is offered through the Psychoanalytic Clinic for Training and Research of the Department of Psychiatry. The program, a minimum of four years in length, leads to the award of a Certificate in Psychoanalysis. For details, see the bulletin of the Psychoanalytic Clinic.

Physicians participating in this training program who wish to be considered for acceptance as candidates for the degree of Doctor of Medical Science may request further information from the Office of the Dean of the Faculty of Medicine.

PROGRAM IN RADIOLOGICAL PHYSICS

A student who holds a bachelor's degree or the equivalent with a major or a strong minor in physics may be eligible for admission to the full-time, integrated course in radiological physics leading to the award of the Master of Science degree. The course, which is given throughout the academic year, consists of lectures, seminars, conferences, and laboratory work designed to prepare the student to carry out all the functions of a physicist in a hospital department of radiology or to engage in applied or theoretical research. The class is limited to six students. Further information may be obtained from the office of the Department of Radiology.

PROGRAM IN BIOPHYSICS AND BIOPHYSICAL CHEMISTRY

The program of study in biophysics and biophysical chemistry, which leads to the award of the degree of Doctor of Philosophy, is under the jurisdiction of the Graduate School of Arts and Sciences. Information about admission and degree requirements and courses of instruction is given in the bulletin of the Graduate School of Arts and Sciences.

The Postgraduate Program

Opportunities for medical training beyond the M.D. degree are offered at Columbia University through three major programs: (1) the training of specialists by means of hospital residencies; (2) the Doctor of Medical Science program, for physicians with particular interest and competence in research in the basic sciences; and (3) special courses in general medicine and in the specialties, for practicing physicians and physicians in training who wish to renew and continue their educational experiences in the various fields of medicine. Further information about these programs may be obtained from the Office of the Dean of the Faculty of Medicine.

TRAINING OF SPECIALISTS

The program offers training opportunities through fellowships at the College of Physicians and Surgeons and residencies at affiliated hospitals for holders of the M.D. degree who have completed hospital internships. Proper training for specialization includes three major elements: First, it provides a comprehensive clinical experience as a resident in a hospital that is equipped and staffed to provide graded responsibilities under the supervision of experts in the selected specialty. Second, it disciplines the resident in scientific attitudes toward health and disease and enriches his clinical experience through advanced training in those medical sciences that are largely concerned with his specialty. Finally, it gives the student the opportunity, either as a resident or as a fellow, to do basic or clinical research. This in turn may stimulate the type of creative productivity that may earn him a recommendation that he be admitted to a program leading to the award of the Doctor of Medical Science degree.

PROGRAM FOR THE DOCTOR OF MEDICAL SCIENCE DEGREE

The University confers the Med.Sc.D. degree upon a few physicians who have completed a research project in one of the basic science fields. Only staff members of the Columbia-Presbyterian Medical Center are eligible for this degree. A minimum of one year of full-time work in the basic science field is required. Additional requirements include completion of a significant and original research project, the passing of a comprehensive and an oral examination, and submission of a dissertation.

COURSES FOR PRACTICING PHYSICIANS AND SPECIALISTS

A variety of short courses have been organized at hospitals and clinics affiliated with the University; they are available at the Columbia-Presbyterian Medical Center, St. Luke's Hospital, and Harlem Hospital. No University credit or certificates are granted for these courses.

Courses for the general practitioner furnish opportunities for him to keep abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention; and to learn the indications, limitations, and value of those technical procedures which require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, demonstrations, and discussion.

For those already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is limited to those who have the preparation necessary to enable them to benefit by the advanced instruction.

INSTITUTE OF CANCER RESEARCH

The Institute of Cancer Research of the Columbia University College of Physicians and Surgeons was established in 1909 with funds bequeathed to the University by George Crocker. It moved from its original quarters on 116th Street to the College of Physicians and Surgeons in 1938. The Francis Delafield Hospital later became the center of clinical and experimental cancer research at P&S. In 1967 a five-story research wing was added to the Delafield Hospital enabling the consolidation of all the laboratories of the Institute in one building. These laboratories now provide the means for extensive investigations of many aspects of cancer and for the postgraduate training of scientists in this field.

INTERNATIONAL INSTITUTE FOR THE STUDY OF HUMAN REPRODUCTION

The International Institute for the Study of Human Reproduction was founded in 1965 with a grant from the Ford Foundation, later supplemented by one from the Rockefeller Foundation. Its primary purpose is to do research in the fields of biology, clinical investigation, and the social sciences relevant to the solution of the world population problem. A parallel objective is to study the many complications of the reproductive process affecting human welfare, such as infertility, endocrine disorders, out-of-wedlock pregnancy, marital and other social problems. The Institute is now operating with four divisions: (1) biology and biochemistry, (2) clinical investigation, (3) demography, and (4) development and evaluation of family planning programs throughout the world.

The office of the Director of the International Institute for the Study of Human Reproduction is on the twentieth floor of the William Black Medical Research Building.

An important addition to the facilities of the Institute has been an agreement signed in the last year whereby the Margaret Sanger Research Bureau will join the Institute as its clinical division. This union will bring to the Institute not only a historic tradition, but experienced staff members and an unusual clinical clientele.

Admission, Registration and Expenses

Entering classes are enrolled in the College once each year in September. The minimum requirement for admission is attendance for three full academic years at an approved college of arts and sciences, although most applicants present four academic years and a bachelor's degree. The Committee on Admissions gives priority to the more advanced students.

The college program must have included English, physics, biology, general chemistry, and organic chemistry (including laboratory), covering at least one academic year each. Additional background in advanced mathematics and chemistry, and in genetics and embryology, may be useful but is not required. The student may have concentrated on any subject—in the natural sciences, social sciences, humanities, or arts—but evidence of a balanced education, as well as demonstrated interest and ability in the natural sciences, is preferred.

APPLICATION PROCEDURE

Application for admission must be filed on a special form which may be obtained from the Office of the Dean of the Faculty of Medicine. Applications are accepted only for the next incoming class; requests for application forms may be submitted one year in advance of registration. The completed form must be accompanied by the application fee of $20. The fee helps to cover the cost of processing the application; it is therefore not returnable and is not credited toward tuition.

If a personal interview is required in connection with the application, it will be requested by the Dean's Office.

SELECTION OF STUDENTS

The Committee on Admissions devotes months to the task of selecting a class of one hundred and thirty-seven from a very large number of applicants. Obviously there will be many well-qualified students whom the College will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation and to the world as well, and welcomes qualified candidates from widely distributed geographical areas, provided they meet the standards of admission.

The Committee places great importance on the fact that the student has learned to think for himself, to explore, to work hard under his own initiative, to face alternatives and make decisions, and has developed a desire for a continuous program of self-education. Preference is given in the selection of students to those

who have shown, in the opinion of the Committee on Admissions, high achievement in their college education, a mature sense of values and sound motivation. qualities of leadership, willingness and ability to assume responsibility, and who, therefore, have already given evidence that they are likely to become ethical, well-trained, and competent physicians.

The practice of medicine is both a science and an art, and to treat the patient as a whole man, the doctor must be a whole man himself. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education of which science is a part.

ACCEPTANCE FEE

A student who has been notified that his application has been accepted should reply within three weeks stating whether or not he intends to register. If accepted before February 15, he may send with his letter of acceptance a check or money order for $50, payable to Columbia University but which is refundable on request until March 1. If accepted after February 15, he must notify the Dean and send his $50 acceptance fee within two weeks after he has received his letter of acceptance, the fee being retained by the University. Should the applicant not register for the courses for the following academic year, the fee will not be returned unless the University for any reason cancels the acceptance. If the applicant registers at the College in the class to which he has been admitted, the amount of the acceptance fee will be credited to his tuition.

ADMISSION TO ADVANCED STANDING

Only a limited number of vacancies occur during the medical course, and students can be accepted on transfer from other schools only when such vacancies do occur. Any student desiring to transfer to the upper classes of the College should communicate with the Dean to learn if vacancies exist.

ADMISSION OF FOREIGN STUDENTS

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student who is not attending an American college or university and wishes to apply to the College should communicate with the Dean.

Applicants from other countries must have command of the English language and must have fulfilled all admission requirements, including at least three years of study in the liberal arts and sciences (not under a faculty of medicine). A personal interview is required of foreign students; hence, candidates cannot be considered before their arrival in the United States.

► REGISTRATION

Before attending classes, each student must register in person during the registration period (see the Academic Calendar). He goes to the Office of the Registrar, files a registration blank giving such information as may be required, and pays his fees. The office, on the second floor of the College building, is open from 9 a.m. to 5 p.m. daily except Saturdays and holidays.

All students will be asked to give social security numbers when registering in the University. Those who do not now have a number should obtain one from their local social security office well in advance of registration.

► REGULATIONS

Each person whose registration has been completed will be considered a student of the University during the term for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

The privileges of the University are not available to any student until he has completed his registration. Since, under the University statutes, payment of fees is part of registration, no student's registration is complete until his fees have been paid. No student is permitted to attend any University course for which he is not officially registered unless he has been granted auditing privileges. No student may register after the stated period unless he obtains the written consent of the proper dean or director.

ATTENDANCE

Students are held accountable for absences incurred owing to late enrollment. Any student whose religious duties conflict at any time with academic requirements should apply to his dean or director for an equitable solution.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University.

Conduct and behavioral rules are guided by a student committee.

HONOR CODE

Academic and intellectual integrity are accepted principles in the medical profession. An Honor Code, created and administered by the student body, is the formal

acknowledgement of this understanding at the College. Each student is expected to abide by it.

► AUDITING COURSES

Degree candidates in good standing who are enrolled for a full-time program in the current term may audit one or two courses in any division of the University without charge by filing a formal application in the Registrar's Office (P&S, Room 2–405) during the change-of-program period. Applications require (*a*) the certification of the Registrar that the student is eligible to audit and (*b*) the approval of the dean of the school in which the courses are offered.

Elementary language courses, laboratory courses, and seminars are not open to auditors; other courses may be closed because of space limitations. In no case will an audited course appear on a student's record, nor is it possible to turn an audited course into a credit course by paying the fee after the fact.

► FEES

The following fees, prescribed by statute for medical students, are subject to change at any time at the discretion of the Trustees:

TUITION

For the full course in medicine for one academic year (or equivalent), payable in two installments	$2,500.00

RESEARCH IN RESIDENCE

During the academic year, for any period or part of a period not longer than an autumn term, spring term, or summer	$50.00

STUDENT HEALTH AND HOSPITAL FEE

For all students, per academic year (see pages 45–46)	$65.36

APPLICATION FEES AND LATE FEES

For admission	$20.00
For each special examination	10.00
For renewal of application for a degree	1.00
For late registration	6.00
For late application, or late renewal of application, for a degree	5.00

PAYMENT OF FEES

Tuition is payable each term in advance and as part of registration. If this fee is paid after the last day of registration a late fee of $6 will be imposed. Checks for tuition and fees should be drawn to the order of Columbia University.

WITHDRAWAL AND ADJUSTMENT OF FEES

A student in good academic standing who is not subject to discipline will always be given an honorable discharge if he wishes to withdraw from the University. If he is under twenty-one years of age, his parent or guardian must first give consent in writing to the Dean. The Dean may, for a valid reason, grant a leave of absence to a student in good standing.

Any adjustment of the tuition that the student has paid is reckoned from the date on which the Registrar receives the student's written notification. The student health and hospital fee, application fees, late fees, and special fees are not subject to rebate.

Up to and including the second Saturday after the first day of classes, tuition will be retained in the following amount:

Full-time study	$50.00
Part-time study	25.00

After the second Saturday after the first day of classes in the term, the above amount is retained, plus an additional percentage of the remaining tuition (as indicated in the schedule below), for each week, or part of a week, of the term up to the date on which the student's written notice of withdrawal is received by the Registrar.

ADJUSTMENT SCHEDULE

	Minimum Fees Retained	*Percentage of Remaining Tuition Retained*
Second Saturday after first day of classes	$25 or $50	0
Week following second Saturday after first day of classes	25 or 50	10
Second following week	25 or 50	20
Third following week	25 or 50	30
Fourth following week	25 or 50	45
Fifth following week	25 or 50	60
Sixth following week	25 or 50	75
Seventh following week	25 or 50	90
Eighth following week	25 or 50	100 (no adjustment)

UNDUE BREAKAGE

Although no deposit is required of students to cover laboratory material and ordinary breakage, a charge will be made for any unusual amount of breakage.

STUDENT HEALTH SERVICE

Daily office hours for sick students are held by the Student Health Service in Room 2–200, Vanderbilt Clinic. Members of the Health Service are available to attend sick students who live near the Medical Center. Students who require hos-

pitalization are taken care of either in the wards of the Medical Center or elsewhere under a hospitalization insurance policy.

The student health and hospital fee is used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance (unless a student already has hospital insurance) and to pay part of the cost of the student health service. Charges for the hospital insurance premium are subject to revision if rates are changed.

APPLICATION, OR RENEWAL OF APPLICATION, FOR A DEGREE

A candidate for the M.D. or Med.Sc.D. degree must file application for the degree by March 1 of the year in which he expects the degree to be awarded. Announcement of the date and procedure is posted on the bulletin boards each spring. If the degree is not earned as expected, the application may be renewed the following year for a fee of $1. The M.D. and Med.Sc.D. degrees are awarded in June; the Ph.D. degree is awarded whenever the candidate completes the requirements.

► ESTIMATED EXPENSES

The approximate current cost of attending the College for an academic year is as follows:

	Average	*Minimum*
Tuition and fees	$2,565	$2,565
Room in Bard Hall	585	470
Board	850	800
Books and instruments (except microscope)	250	200
Laundry and dry cleaning	150	100

In addition, each student should budget an average of $350 (minimum $250) for such items as clothing, travel, amusements, and sundries.

MICROSCOPE, INSTRUMENTS, AND BOOKS

Each entering student is required to provide himself with a microscope of standard make fitted with the following attachments:

Binocular body with 10x wide field high-eyepoint eyepieces with pointer; quadruple nosepiece fitted with 4 achromatic objectives of approximately 4x, 10x, 45x, and 100x oil immersion; ungraduated mechanical stage; Abbe condenser with rack and pinion focusing mount; low voltage substage illuminator with transformer attached to the microscope (110 volt attached illuminator also acceptable); all in carrying case.

Minimum microscope requirements are: monocular microscope with 10x eyepiece; triple nosepiece; 10x, 45x, and 100x oil-immersion objectives; mechanical stage ungraduated; Abbe condenser; attached substage 110 volt lamp; carrying case.

The cost of a suitable reconditioned microscope varies from $300 to $600 de-

pending on the age, make, and model. The standard prices of new microscopes range from $750 to $950. A limited number of monocular microscopes are available for rental at $15 a month or $120 for the school year.

Students are required to secure the usual instruments needed for the various diagnostic examinations of patients.

The books required or recommended for courses of instruction are announced at the beginning of the year.

► HOUSING

The current average room rate at Bard Hall is $585 for the academic year of thirty-eight weeks. First- and second-year medical student residents subscribe to a five-day-a-week, fifteen-meal, prepaid board plan; the present rate is $525 for the academic year, exclusive of the Christmas and Easter holiday periods. In case of marked increase in operating costs, all rates are subject to change. Room application blanks and further information concerning rates will be furnished on request by the Bard Hall Office, 50 Haven Avenue, New York, N.Y. 10032.

Financial Aid

A *fellowship* is an academic award of honor accompanied by a stipend to be used by the fellow in the furtherance of his studies or research. Fellows are not required to render any service to the University or the donor; rather, they are to devote their entire time to their own work. There is no restriction on a fellow's publication of his studies or research as a condition of the grant. A fellow may not engage in any remunerative employment while holding a fellowship unless the Dean gives his written consent.

A *scholarship* is an award, based primarily on financial need, of a stipend to be used by the student in the furtherance of his studies or research. The same rules of tenure apply as those governing fellowships except that students may engage in remunerative employment without the consent of the Dean. Scholarship stipends are usually smaller than fellowship stipends.

Fellowships and scholarships are usually awarded for one academic year at a time. They may be canceled at any time for failure to maintain a satisfactory academic standard or to comply with the terms of the award. Fellows and students, except those holding traveling fellowships, are expected to reside in New York City or its vicinity during the academic year, unless written permission is granted by the Dean to study elsewhere.

Dates of application and further information may be obtained from the Office of the Dean.

FELLOWSHIPS

Area Institute. Varying in number; from $2,500 to $3,500 each. Open to graduates of, or second-year students in, the professional schools of the University; for work toward certificates in the regional institutes. An applicant is required to give the major portion of his time to the area program; he should discuss his program with the appropriate institute director before applying.

Bache, Jules S. (1945). Open to one or more graduate or undergraduate physicians who, in the judgment of the Professor of Obstetrics and Gynecology, are fitted to do special work in obstetrics and gynecology. Given by Mrs. Muriel Richards Pershing and Mrs. Dorothy Richards Hirshon, in memory of their grandfather, Dr. Jules S. Bache.

Barnes-Foster (1950). Open to women graduate students for work in gynecology.

Beekman, Gerard (1940). Awarded annually for advanced work in orthopedic surgery. Given by the Beekman Family Association.

Cutting, William Bayard, Traveling (1913). Two; awarded annually. Open to men who have been in residence as candidates for higher degrees under the Graduate Faculties for at least one academic year and to graduates of the Uni-

versity in law, medicine, architecture, or music who have had at least one additional year of graduate study in the University. Given by Mrs. William Bayard Cutting, in memory of her husband, William Bayard Cutting, LL.B. (18)'71, M.A. (18)'72.

Du Bois, Abram. Awarded annually. Open to a graduate of the College; for specialization in diseases of the eye or for studies in surgical pathology. The holder devotes his time to clinical and laboratory study, at home or abroad. Given by the two sons and the daughter of Dr. Abram Du Bois, Class of 1835.

Ellis, George W. Awarded annually. Open to graduates of recognized Vermont colleges. Reappointment: for a student in medicine, not more than three additional years.

Gay, Frederick Parker, Memorial. Awarded annually. For graduate work in bacteriology; awarded on the nomination of the chairman of the Department of Microbiology.

Gies, William J. Awarded annually. For graduate study in biochemistry; awarded on nomination of the chairman of the Department of Biochemistry.

Holt, L. Emmett. Awarded annually. Open to a student of the graduating class of any medical school or to a graduate of not more than six years standing; for the study of diseases of children, in this country or abroad. Reappointment: for not more than one additional year.

James, Walter Belknap, Research. Awarded annually. Open to a graduate in medicine; for advanced study in medicine either at the University or elsewhere.

Koplik Children's Scholarship. Awarded every other year. Open to a physician under thirty years of age who has shown special aptitude for original work in the investigation of the diseases of children.

Lambert, Samuel W. and Elizabeth W., Traveling (1948). For specialization in surgery. Given in memory of Samuel W. and Elizabeth W. Lambert.

Proudfit, Maria McLean. Awarded every four years. Open to a son of native-born American parents; for advanced studies in internal medicine. The holder must remain unmarried for the duration of the fellowship. Given by Alexander Moncrief Proudfit, B.A., (18)'92. Next award: 1973–1974.

Romaine, DeWitt C. (1946). For medical research in the College. Given by the estate of C. Everetta Romaine.

Ryle, Dorothy, Research (1950). For research in neurology. Given by Mrs. Thorneycroft Ryle.

Tilney, Frederick, Memorial Fund. For such research projects in neurology as may be recommended from time to time by the chairman of the Department of Neurology, the Dean of the Faculty of Medicine, and the President of the Board of Trustees of the Presbyterian Hospital. Given by the Frederick Tilney Memorial Fund, Inc.

Tucker, Ervin Alden. Awarded annually. For graduate study in obstetrics. Given by Mrs. Ervin Alden Tucker.

SCHOLARSHIPS

Alumni. A limited number of national scholarships. Provided by gifts from the P&S Alumni Association and other contributors.

Anonymous. Several; awarded annually. From an anonymous donor.

Banbury (1955). Open to students enrolled in the College. From the Banbury Scholarship Fund.

Bernheim, Isaac J. and Rena Henly. To be awarded annually. Given by the family in honor of Isaac J. and Rena Henly Bernheim.

Birtwhistle, Elsie J. (1965). Founded by the will of Morell Birtwhistle in memory of his wife; to assist one or more worthy students.

Blumenthal, George, Jr. Several. From the George Blumenthal, Jr., Fund.

Britenstool, Dr. Harry, Memorial (1964). From the estate of Mrs. Blanche B. Ostheimer in memory of her brother.

Brownstone, Lucien and Ethel, Merit Medical Scholarship Fund (1965). A merit scholarship to be awarded every four years. First award: 1965–1966. "Established for the benefit of humanity and for the encouragement of this nation's outstanding and gifted individuals to plan careers in medicine."

Buchman, Dr. Moses R., Memorial (1957). Open to undergraduate medical students, with preference given to those who are residents of Westchester and who plan to practice pediatrics. Established by friends of Dr. Buchman.

Bull, David C., Memorial (1959). In memory of Dr. David C. Bull, a former member of the Department of Surgery.

Butler, Richard. Open to men born in the state of Ohio who are qualified for admission to, and plan to enter, Columbia College, one of the Graduate Faculties, the Schools of Law or Engineering & Applied Science, or the College of Physicians and Surgeons. Reappointment: not more than two additional years.

Clark, Alonzo. Awarded annually. Founded by the will of Alonzo Clark, M.D., LL.D., for many years President of the College of Physicians and Surgeons.

Class of 1890. Awarded annually. Given by a member of the class.

Class of 1899. Awarded annually. For a resident scholarship. Given by the class in commemoration of the thirty-fifth anniversary of its graduation.

Class of 1912. Awarded annually. Given by the class on the fifteenth anniversary of its graduation.

Class of 1920. Awarded annually. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1932. Awarded annually. For a scholarship room. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1933. For a scholarship room.

Class of 1936. Awarded annually. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1952. Given by members of the class on the tenth anniversary of its graduation.

Class of 1953. Awarded annually. Given by members of the class.

DeAngelis, Anthony M. (1958). Open to a student of the fourth-year class. Given by Dr. Anthony M. DeAngelis.

Dennett, Horace. Several; awarded annually. Open to students in the third- and fourth-year classes whose records of ability and scholarship give evidence of special fitness.

Detwiler, Samuel R., Memorial (1957). Awarded annually. Given by Dr. Detwiler's friends and colleagues.

Devendorf, David M. Preference is given to a candidate from Herkimer County, New York, preferably one from the town of Herkimer. Given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861.

Doughty, Francis E. Given by Miss Phoebe Caroline Swords, in memory of Dr. Francis E. Doughty, Class of 1869.

Eichner, Joseph Herman and Hannah (1941). Awarded annually. Founded by the will of Benjamin Bernard Eichner, Class of 1919.

Frantz, Virginia Kneeland. Awarded annually. Bequest of Dr. Frantz. Established in 1967.

George and Charlie (1942). Awarded annually. Given by the Alumni Association of the College, in memory of George Peters and Charles Costello.

Hanlon, John F. Awarded annually. Given by members of the Class of 1951, in memory of their classmate, John F. Hanlon.

Harsen, Jacob (1859). Five; awarded annually: two to students in the second-year class, two to students in the third-year class, and one to a student in the fourth-year class. Given by Dr. Jacob Harsen.

Hartley, Frank (1914). Given by friends and colleagues of Dr. Frank Hartley, Class of 1880.

Hemingway, William H. Several; awarded annually; to cover tuition.

Himmelstein, Aaron, Memorial (1960). Awarded annually. Open to undergraduate medical students. Given by Dr. Himmelstein's friends and colleagues.

Huber, Francis. Awarded annually. Open to a graduate of any institution other than Columbia University, the College of the City of New York, Barnard College, and Hunter College. Given by Dr. Francis Huber.

Huber, Viola B. Awarded annually. Open to a graduate of Hunter College. Given by Dr. Francis Huber.

Jacobi, Abraham. Four; awarded annually; two to graduates of Columbia University and two to graduates of the College of the City of New York. Given by Dr. Francis Huber in memory of Dr. Abraham Jacobi.

Loeb, Robert F., Educational Gift (1961). For the education of children of full-time staff members.

McAneny, Marjorie. Awarded annually. Open to a graduate of Barnard College. Given by Dr. Francis Huber.

Markoe, Francis Hartman. Awarded annually. Given by Madeline Shelton Markoe, in memory of her husband.

Rappleye, Willard Cole. Established at the retirement of Dean Rappleye.

Rudin, Louis & Rachel. Established in 1970 by the Rudin Foundation for students of excellence who would not otherwise be able to complete their education.

St. John-Princeton (1955). Open to graduates of Princeton University who have been admitted to the College.

Saphir, Joseph F., Memorial (1960). Awarded annually. Given by Elsa M. Saphir, in memory of her husband, Joseph F. Saphir, Class of 1902.

Severinghaus, Aura E. (1961). Established by The Clark Foundation as an unrestricted, discretionary fund to be used primarily for the support of students and student activities. Requests of fourth-year students who, by electing clerkships at the Mary Imogene Bassett Hospital, Cooperstown, New York, are subject to increased living and transportation costs are given priority.

Severinghaus, Aura E. (1962). Awarded annually. Given by faculty members, alumni, and students.

Stewart, Edgar Eginton, Jr., Memorial. Awarded annually. Given by Dr. E. E. Stewart, in memory of his son.

Vollmer, Hermann. Awarded annually. Open to candidates in medicine. Established in his memory by his wife.

Vosseler, Theodore L. Awarded annually. Preference is given to graduates of Colgate University. Given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler.

Wechsler, Robert M. Awarded annually. Given by Dr. I. S. Wechsler, in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the Class of 1945, in memory of their classmate.

Wilson, Dr. James Lancelot. Awarded annually. In the words of the donor: "the income from this fund is to be awarded each year, without regard to race, creed or color, to a deserving male or female student suffering from ischemia of opportunity and finance; such student to be selected by the College of Physicians and Surgeons."

PRIZES

With the exception of the Stevens Triennial Prize, all awards are made annually.

Coakley Memorial Prize. Awarded by the Department of Otolaryngology to the student who, in the opinion of the Professor of Otolaryngology, has done the best work in the field for the current year.

Cock, Thomas F., M.D., Prize. Awarded to the student in the College who submits the best thesis on puerperal fever. Given by bequest of Augustus C. Chapin.

Gay, Frederick Parker, Memorial Award (1948). Awarded to a student doing outstanding work in microbiology who is chosen by the chairman of the Department of Microbiology and the Dean of the Faculty of Medicine. Given by Mrs. Frederick Parker Gay, in memory of her husband.

Janeway Prize. Awarded to the student graduating from the College who, in the opinion of the Faculty, has ranked highest in efficiency and ability. Given by bequest of Matilda S. J. Wisner.

Meierhof, Dr. Harold Lee, Prize. Awarded by the Professor of Pathology to the student who, in his opinion, has done the best work in the field for the current year. Given by the parents of Dr. Harold Lee Meierhof, Class of 1917.

Parker, Joseph Garrison, Award. Awarded to the senior in the College who best exemplifies, through a continued personal interest and activities in art, music, literature, or the public interest, the fact that Living and Learning go together. Given by Dr. and Mrs. Philip Parker, in memory of their son, Joseph, Class of 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts was a constant source of inspiration.

Psychiatry, Department of, Prize. Awarded by the Department of Psychiatry to a second-year student for the best work in psychopathology.

Sciarra, Helen M., Prize. Awarded to the fourth-year student who has done the best work in the third-year neurology elective.

Smith, Joseph Mather, Prize. Awarded to the graduate of the College whose essay or original research in medical subjects is deemed by the Committee of Award to be the most meritorious.

Stevens Triennial Prize. Awarded triennially to the person, not necessarily a graduate of the College, who submits the best essay or original research on any medical subject.

Urology Prize. Awarded to the undergraduate student who submits the best essay on a urological subject during the school year.

Watson, Dr. William Perry, Foundation in Pediatrics Prize (1921). Awarded to a member of the graduating class who has been in attendance for at least two years and who has shown the most efficient work in the study of the diseases of infants and children during the regular course at the College.

Winchester, Walter, Prize. Awarded to the senior in the College who, in the opinion of the Faculty, has the potential of exemplifying the humanitarian spirit in the art and practice of medicine as lived by the late Dr. Winchester, Class of 1900. Given by Dr. and Mrs. Lewis D. Kaufman.

STUDENT LOANS

Loan funds are provided by Columbia University and by the Health Professions Student Loan Program, through the University, for the assistance of students after enrollment. Application forms may be obtained from the Office of the Dean.

Students who are legal residents of New York State are eligible for loans and for New York State Scholar Incentive Awards through the New York State Higher Education Assistance Corporation. Application forms and instructions are issued by the Dean's Office.

Limited funds are available periodically for loans to medical students in emergencies. These funds, administered by the Dean, come from gifts by classmates and friends in memory of John Adams Mahew, Class of 1955, and from other sources.

STUDENT EMPLOYMENT

The Dean's Office will assist in obtaining suitable positions for medical students and graduates who are in need of employment. A list of the available positions for medical students is maintained. Because of the heavy schedule of the College it is difficult for medical students to undertake part-time work outside the Medical Center during the academic year and, so far as feasible, other financial arrangements should be made.

The wives of medical students will find many opportunities for employment at the Medical Center; those who are interested should consult the personnel offices of the College and the Hospital.

Student and Alumni Activities

All students enrolled in the College enjoy the privileges and facilities of the University campus, including the University libraries, the Placement Office, and the various student activities.

P&S CLUB

The P&S Club is now in its seventy-sixth year. During its long history it has concerned itself with the extracurricular activities of the medical students. It has enriched student life at P&S with its broad program of social, spiritual, athletic, and cultural activities. The program is carried out by more than twenty student committees under the full-time services of the Director of Student Activities, Mr. Edwin M. Barton.

A faculty board of advisers assists the students and the Director in the operation and support of the club program. Every matriculated student in the College of Physicians and Surgeons is automatically a member and is invited to participate in the pursuits of his choice.

Among the activities sponsored by the P&S Club are an orientation program for new students, athletic contests, concerts, choir and vesper services, talks by guest lecturers, home visits with members of the faculty, and student-faculty visits.

In recent years, the Club has also sponsored conferences on such subjects as medicine and religion, and medicine and law, as well as on medical service appointments here and abroad.

THE ALPHA OMEGA ALPHA HONORARY FRATERNITY

The Alpha Omega Alpha honorary fraternity is a medical honor society, membership in which is based on scholarship and character. A chapter was organized at the College of Physicians and Surgeons in 1907.

ALUMNI ASSOCIATION OF THE COLLEGE OF PHYSICIANS AND SURGEONS

After graduation, all students who are in good professional standing may become members of the Alumni Association of the College of Physicians and Surgeons by notifying the secretary, Dr. Anthony M. De Angelis, 630 West 168th Street, New York, N.Y. 10032, that they wish to join.

Departments of Instruction

ANATOMY

PROFESSORS

Edward W. Dempsey, *chairman. B.A., Marietta, 1932; Sc.M., Brown, 1934; Ph.D., 1937; M.A., Harvard, 1946; Sc.D., Marietta, 1954*
Malcolm B. Carpenter. *B.A., Columbia, 1943; M.D., Long Island, 1947*
Herbert O. Elftman. *B.A., California, 1923; M.A., 1925; Ph.D., Columbia, 1929*
Sarah A. Luse. *B.A., Rockford, 1940; M.D., Western Reserve, 1949*
Frederick A. Mettler (assigned to Neurology). *B.A., Clark, 1929; M.A., Cornell, 1931; Ph.D., 1933; M.D., Georgia, 1937; D.Sc., Clark, 1951*
Melvin L. Moss (Dean, Faculty of Dental and Oral Surgery). *B.A., New York University, 1942; D.D.S., Columbia, 1946; Ph.D., 1954*
Charles R. Noback. *B.S., Cornell, 1936; M.S., New York University, 1938; Ph.D., Minnesota, 1942*

MALCOLM P. ALDRICH PROFESSOR

George K. Smelser (assigned to Ophthalmology). *B.A., Earlham, 1929; Ph.D., Chicago, 1932*

ASSOCIATE PROFESSORS

Frederic J. Agate. *B.A., Columbia, 1932; Ph.D., 1949*
John M. Bedford (assigned to International Institute for Study of Human Reproduction). *B.A., Cambridge, 1958; M.A., Vet.M.B., M.R.C.V.S., 1958; Ph.D., London, 1965*
Philip W. Brandt. *B.A., Swarthmore, 1952; M.S., Pennsylvania, 1957; Ph.D., Columbia, 1960*
Charles A. Ely. *B.A., Washington and Jefferson, 1936; Ph.D., Wisconsin, 1949*

ASSISTANT PROFESSORS

George W. Cooper, Jr. *B.A., Brown, 1958; Ph.D., Stanford, 1964*
William G. Dilley. *B.A., California (Berkeley), 1965; M.A., 1967; Ph.D., 1970*
Marie D. Felix. *B.S., American, 1956; M.S., Cornell, 1961; Ph.D., 1962*
Ray C. Henrikson. *B.Sc., Massachusetts, 1959; M.Sc., Brown, 1961; Ph.D., 1965*
Farish A. Jenkins, Jr. *B.A., Princeton, 1961; M.S., Yale, 1966; Ph.D., 1968*
W. Patrick Luckett. *B.A., Missouri, 1961; M.A., 1963; Ph.D., Wisconsin, 1967*
Mary S. Parshley (assigned to Obstetrics and Gynecology). *B.A., Smith, 1933; M.A., Pennsylvania, 1935; Ph.D., 1938*
Letty Salentijn. *D.D.S., State University of Utrecht, 1967*
Shih-Chang Shen. *B.S., Yenching, 1933; Ph.D., Cambridge, 1939*

RESEARCH ASSOCIATES

Bei-Loo Chen
Robert J. Demarest
Joseph Reibeisen

INSTRUCTORS

Ernest W. April
Alfonso Solimene

SPECIAL LECTURERS

Edmund Applebaum
Margaret R. Murray Le Doux

ANESTHESIOLOGY

PROFESSORS

Shih-Hsun Ngai, *chairman. M.B., National Central (Nanking), 1944*
Robert M. Epstein. *B.S., Michigan, 1947; M.D., 1951*
Ronald L. Katz. *B.A., Wisconsin, 1952; M.D., Boston, 1956*
Lester C. Mark. *M.D., Toronto, 1941*
Gabriel G. Nahas. *M.D., Toulouse, 1944; Ph.D., Minnesota, 1953*
Herbert Rackow. *B.S., Pennsylvania State, 1939; M.D., Harvard, 1946*

PROFESSOR OF PEDIATRICS

L. Stanley James. *M.D., Otago (New Zealand), 1948*

PROFESSOR OF CLINICAL ANESTHESIOLOGY

Edgar C. Hanks. *B.A., Gettysburg, 1943; M.D., Jefferson, 1947*

ASSOCIATE PROFESSORS

Mieczyslaw Finster. *B.A., Gymnasium (Poland), 1941; M.D., Geneva, 1957*
Aaron J. Gissen. *B.A., Johns Hopkins, 1936; M.D., New York University, 1940*
Joannes H. Karis. *M.D., State University of Utrecht, 1952*
Richard W. Patterson. *B.A., Iowa, 1944; M.D., 1947*
Stuart E. Sullivan. *B.S., Canisius, 1950; M.D., State University of New York (Upstate), 1955*

ASSOCIATE PROFESSORS OF CLINICAL ANESTHESIOLOGY

Leonard Brand. *B.S., Yale, 1946; M.D., Columbia, 1949*
Ernest Salanitre. *B.S., College of the City of New York, 1936; M.D., Rome, 1942*
Herman Schwartz. *B.A., New York University, 1944; M.D., 1946*

ASSISTANT PROFESSORS

Veronica Bakamjian. *B.A., American University of Beirut, 1932; M.D., 1937*
Robert A. Baratz. *B.S., Wisconsin, 1952; M.D., Marquette, 1963; Ph.D., Illinois, 1954; M.S., 1959*
Ralph E. Epstein. *B.A., Columbia, 1959; M.D., Harvard, 1963*
Lynne T. Greene. *B.A., Syracuse, 1945; M.D., 1947*
Jean Henley. *B.A., Barnard, 1937; M.D., Columbia, 1940*
Llynda M. Hinds. *B.A., Bryn Mawr, 1958; M.D., Women's Medical College of Pennsylvania, 1962*
Allen I. Hyman. *B.A., Columbia, 1955; M.D., Albany, 1959*
Vance Lauderdale. *B.A., Harvard, 1945; M.D., Columbia, 1947*
Clyde O. Lord. *B.A., Vermont, 1959; M.D., Meharry, 1963*
Shirley J. Markee. *B.A., Duke, 1953; M.D., 1958*
Richard S. Matteo. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1955*
Hisayo O. Morishima. *M.D., Toho (Tokyo), 1951; Ph.D., Tokyo, 1959*
Eugene J. Pantuck. *B.S., Tufts, 1959; M.D., 1963*
Hilda Pedersen. *M.B., Ch.B., Edinburgh, 1958*
Daniel M. Philbin. *B.S., Duquesne, 1957; M.D., St. Louis, 1961*
Daniel M. Pino. *M.D., New York University, 1942*
Paul J. Poppers. *M.D., Amsterdam, 1955*

Roland W. Smith. *B.A., Massachusetts, 1957; M.D., Pennsylvania, 1961*
Lubos Triner. *M.D., Charles (Prague), 1955; Ph.D., 1961*
Charles E. Wolf. *B.A., Texas Lutheran, 1950; M.D., Texas, 1954*

ASSISTANT PROFESSOR OF CLINICAL ANESTHESIOLOGY

Arnold St. John Lee. *B.A., Temple, 1947*

ASSISTANT CLINICAL PROFESSOR

Edward L. Gibson. *B.S., Roosevelt, 1953; M.D., Howard, 1957*

ASSOCIATES
Robert T. Donham
Dorothy A. Hufnagel

RESEARCH ASSOCIATES
Salha S. Daniel

RESEARCH ASSOCIATES (*continued*)
Iris W. Schwartz
David S. Skene
Mariagnes Verosky
Yvonne Vulliemoz

INSTRUCTORS
Gerald L. Feinberg
Letty Mei Pang Liu

► AT MARY IMOGENE BASSETT HOSPITAL

ASSISTANT CLINICAL PROFESSOR

William F. Karl. *B.A., Cornell, 1947; M.D., 1951*

► AT HARLEM HOSPITAL

ASSISTANT CLINICAL PROFESSORS

Samuel C. Brisbane. *B.A., Lincoln, 1937; M.D., Howard, 1949*
Herbert G. Cave. *M.D., Howard, 1947*
Archibald K. Hinds. *B.A., City College of New York, 1952; M.D., Montpellier, 1962*
Gilbert Phanor. *B.S., Lycee T. Gilboro, 1953; M.D., Medical School of Haiti, 1960*
Stephanie Shich. *M.D., University of Josef Pilsudski, 1937*
Kentaro Tsueda. *M.D., Okayama, 1958*

INSTRUCTORS
Oscar N. Graves
Theodosia H. Mack

► AT ROOSEVELT HOSPITAL

ASSISTANT CLINICAL PROFESSOR

Richard Keenan. *M.D., Creighton, 1957*

ASSOCIATES
Benjamin K. Clarke
Wally Gordon

INSTRUCTOR
Ronald A. Andree

► AT ST. LUKE'S HOSPITAL

ASSISTANT CLINICAL PROFESSOR

Louis S. Blancato. *M.D., New York Medical College, 1945*

BIOCHEMISTRY

PROFESSORS

David B. Sprinson, *acting chairman*. *B.A., College of the City of New York, 1931; M.S., New York University, 1936; Ph.D., Columbia, 1946*
Reinhold Benesch. *B.Sc., Leeds, 1941; M.Sc., 1945; Ph.D., Northwestern, 1950*
Erwin Chargaff. *Ph.D., Vienna, 1928*
Irwin Clark (assigned to Orthopedic Surgery). *B.A., Harvard, 1939; Ph.D., Columbia, 1949*
Max A. Eisenberg. *B.A., Brooklyn, 1938; M.S., New York University, 1941, Ph.D., Duke, 1950*
Philip Feigelson (Cancer Research). *B.S., Queens, 1947; Ph.D., Wisconsin, 1951*
Samuel Graff. *B.S., Purdue, 1927; Ph.D., Columbia, 1931*
Alvin I. Krasna. *B.A., Yeshiva, 1950; Ph.D., Columbia, 1955*
Seymour Lieberman (assigned to Obstetrics and Gynecology). *B.S., Brooklyn, 1936; M.S., Illinois, 1937; Ph.D., Stanford, 1941*
Barbara W. Low. *B.A., Oxford, 1942; M.A., 1946; D.Phil., 1948*
Maurice M. Rapport (assigned to Psychiatry). *B.S., College of the City of New York, 1940; Ph.D., California Institute of Technology, 1946*
Parithychery Srinivasan. *B.Sc., Madras, 1946; Ph.D., 1953*

ASSOCIATE PROFESSORS

Allen M. Gold. *B.A., Chicago, 1950; Ph.D., Harvard, 1955*
David J. Smith. *D.D.S., Columbia, 1944*

ASSISTANT PROFESSORS

George Alexander (assigned to Psychiatry). *B.S., Hobart, 1949; Ph.D., Rutgers, 1953*
Ruth E. Benesch. *B.Sc., London, 1946; Ph.D., Northwestern, 1951*
Gerald Cohen (assigned to Psychiatry). *B.S., College of the City of New York, 1950; M.A., Columbia, 1952; Ph.D., Columbia, 1954*
Jay A. Glasel. *B.S., California Institute of Technology, 1955; Ph.D., Chicago, 1959*
Edith G. Gollub. *B.S., Philadelphia College of Pharmacy and Science, 1945; M.S., Pennsylvania, 1956; Ph.D., 1961*
Irving Goodman (assigned to Surgery). *B.A., Colorado, 1939; M.S., 1941; Ph.D., 1944*
John D. Karkas. *B.A., Thessaloniki (Greece), 1952; Ph.D., Columbia, 1962*
Leon T. Kremzner (assigned to Neurology). *B.S., Seton Hall, 1949; M.S., Rutgers, 1952; Ph.D., 1955*
Kenneth O. Lloyd (assigned to Dermatology). *B.Sc., Wales, 1957; Ph.D., 1960*
Ines Mandl (assigned to Obstetrics and Gynecology). *Ph.D., Polytechnic Institute of Brooklyn, 1949*
Herbert L. Meltzer (assigned to Psychiatry). *B.S., Long Island, 1942; Ph.D., Columbia, 1950*
Richard W. Moyer. *B.S., Pennsylvania State, 1962; Ph.D., California (Los Angeles), 1967*
Joel Rothschild (International Institute for Study of Human Reproduction). *B.A., Howard, 1948; Ph.D., Columbia, 1958*
Benjamin Weiss (assigned to Psychiatry). *B.S., Iowa, 1944; Ph.D., Illinois, 1949*

ADJUNCT ASSISTANT PROFESSOR

Liese L. Abell (assigned to Medicine). *Ph.D., Frankfurt, 1935*

ASSOCIATE

Ada M. Graff

RESEARCH ASSOCIATES

Mella Adlersberg
William E. Bondinell
Richard C. Bray

RESEARCH ASSOCIATES (*continued*)

Elinor F. Brunngraber
Jean Dayan

RESEARCH ASSOCIATES (*continued*)

David D. Dexter
W. Wardle Fullerton
Robert L. Kassel
Brian J. Mee
Roberto Milanino
James M. Perel
William Poillon (assigned to Neurology)
Laura Ponticorvo

RESEARCH ASSOCIATES (*continued*)

Reginald Potter
Ildiko Radichevich (assigned to Medicine)
Roger D. Simkin
Hadassah Tamir
Paula E. Zimmering (assigned to Obstetrics and Gynecology)

SPECIAL LECTURERS

Zacharias Dische (assigned to Ophthalmology)
Forrest E. Kendall (assigned to Medicine)
Karl Meyer (assigned to Medicine)
David Nachmansohn (assigned to Neurology)

► AT MARY IMOGENE BASSETT HOSPITAL

ASSOCIATE

Theodore Peters, Jr.

RESEARCH ASSOCIATE

William A. Warren

► AT HARLEM HOSPITAL

ASSOCIATE

Anne M. Briscoe (assigned to Medicine)

RESEARCH ASSOCIATE

Muriel Feigelson (assigned to Obstetrics and Gynecology)

DERMATOLOGY

PROFESSOR

Carl T. Nelson, *chairman*. *B.A., Harvard, 1935; M.A., 1937; M.D., 1941*

CLINICAL PROFESSOR

Anthony N. Domonkos. *M.D., Budapest, 1939*

ASSOCIATE PROFESSOR

Margarita Silva-Hutner. *B.A., Puerto Rico, 1936; M.A., Radcliffe, 1945; Ph.D., 1952*

ASSOCIATE CLINICAL PROFESSORS

Saul L. Sanders. *B.A., Kenyon, 1950; M.D., Cornell, 1954*
Lewis Shapiro. *B.A., Duke, 1948; M.D., 1952*
Richard A. Walzer. *B.A., Harvard, 1952; M.D., Columbia, 1956*

ASSISTANT PROFESSOR OF BIOCHEMISTRY

Kenneth O. Lloyd. *B.S., Wales, 1957; Ph.D., 1960*

ASSISTANT CLINICAL PROFESSORS

Irving Abrahams. *B.A., New York University, 1948; M.D., State University of New York, 1954*
Jack Eisert. *B.A., Cornell, 1952; M.D., State University of New York, 1956*

Meyer H. Slatkin. *B.S., College of the City of New York, 1935; M.D., Edinburgh, 1940*
Alexander W. Young. *B.S., Maryland, 1944; M.D., 1946*

ASSOCIATES

Marvin Brodey
James P. Fields

RESEARCH ASSOCIATE

Julia M. Einbinder

INSTRUCTORS

William G. Atwood
Louis A. Fragola

INSTRUCTORS (*continued*)

Einar A. Juhlin
Theodore A. Labow
Peter C. Lombardo

ASSISTANTS

Burton S. Koplon
Jack H. Rozen
Luis Suarez-Reyes
Karl W. Waterson, Jr.

SPECIAL LECTURERS

Leslie P. Barker
J. Lowry Miller

LECTURER

Arturo L. Carrion

► AT HARLEM HOSPITAL

ASSISTANT CLINICAL PROFESSOR

Henry L. Hines. *M.D., Meharry, 1947*

HUMAN GENETICS AND DEVELOPMENT

PROFESSORS

Sol Spiegelman, *acting chairman,* (Institute of Cancer Research). *B.S., College of the City of New York, 1939; M.S., Columbia, 1942; Ph.D., Washington (St. Louis), 1944*
Kimball C. Atwood. *B.A., Columbia, 1942; M.D., New York University, 1946*
Elvin A. Kabat (see Microbiology). *B.S., College of the City of New York, 1932; M.A., Columbia, 1934; Ph.D., 1937*
Robert S. Krooth. *Ph.D., London, 1952; M.D., Harvard, 1957*
Paul A. Marks (see Medicine). *B.A., Columbia, 1946; M.D., 1949*
Orlando J. Miller (see Obstetrics and Gynecology). *B.S., Yale, 1945; M.D., 1950*
Richard A. Rifkind (see Medicine). *B.S., Yale, 1952; M.D., Columbia, 1955*

ASSOCIATE PROFESSOR

David H. L. Bishop. *B.Sc., Liverpool, 1959; Ph.D., 1962*

ASSOCIATE PROFESSOR OF CLINICAL PSYCHIATRY

John D. Rainer. *M.D., Columbia, 1951*

ASSISTANT PROFESSOR

Donald R. Mills. *B.A., Indiana, 1962; M.A., 1964, Ph.D., Illinois, 1968*

ADJUNCT PROFESSORS

John J. Hutton. *B.A., Harvard, 1958; M.D., 1964*
Sidney Udenfriend. *B.S., College of the City of New York, 1939; Ph.D., New York University, 1948*

Arthur Weissbach. *B.S., College of the City of New York, 1947; Ph.D., Columbia, 1953*
Herbert Weissbach. *B.S., College of the City of New York, 1953; Ph.D., George Washington, 1957*

ASSOCIATE

Dorothy P. Warburton

RESEARCH ASSOCIATES

Ann S. Henderson
Donald J. Komma
Ming Tsung Yu

INSTRUCTORS

Harold J. Calvin
David H. Chui
Jeffrey Schlom

MEDICINE

SAMUEL BARD PROFESSOR

Stanley E. Bradley. *B.A., Johns Hopkins, 1934; M.D., Maryland, 1938*

TILDEN-WEGER-BIELER PROFESSOR

George L. Curran. *B.A., Harvard, 1941; M.D., Columbia 1944*

PROFESSORS

Harry W. Fritts, Jr. *B.S., Massachusetts Institute of Technology, 1942; M.D., Boston, 1951*
DeWitt S. Goodman. *B.A., Harvard, 1951; M.D., 1955*
Rejane M. Harvey. *B.A., Vassar, 1939; M.D., Columbia, 1943*
Paul A. Marks (see Human Genetics and Development). *B.A., Columbia, 1946; M.D., 1949*
George A. Perera. *B.A., Princeton, 1933; M.D., Columbia, 1937; Med.Sc.D., 1942*
Richard A. Rifkind (see Human Genetics and Development). *B.S., Yale, 1952; M.D., Columbia, 1955*
John V. Taggart (see Physiology). *M.D., Southern California, 1940*
Arthur R. Wertheim. *B.A., Dartmouth, 1935; M.D., Jefferson, 1939*

PROFESSORS OF CLINICAL MEDICINE

Henry Aranow, *acting chairman.* *B.A., Harvard, 1935; M.D., Columbia, 1938*
Felix E. Demartini. *B.A., Columbia, 1943; M.D., 1946*
Charles A. Flood. *B.A., Columbia, 1925; M.D., 1928; M.S., 1933; Med.Sc.D., 1934*
John H. Laragh. *M.D., Cornell, 1948*
Hamilton Southworth. *B.A., Yale, 1929; M.D., Johns Hopkins, 1933*
Sidney C. Werner. *B.A., Columbia, 1929; M.D., 1932; Med.Sc.D., 1937*

CLINICAL PROFESSOR

M. Irene Ferrer. *B.A., Bryn Mawr, 1937; M.D., Columbia, 1941*

ASSOCIATE PROFESSORS

Vincent P. Butler, Jr. *B.A., St. Peter's, 1949; M.D., Columbia, 1954*
Robert E. Canfield. *B.S., Lehigh, 1952; M.D., Rochester, 1957*
Paul J. Cannon. *B.A., Holy Cross, 1954; M.D., Harvard, 1958*
Andrew G. Frantz. *B.A., Harvard, 1951; M.D., Columbia, 1955*
Harold C. Neu. *B.A., Creighton, 1956; M.D., Johns Hopkins, 1960*
Hymie L. Nossel. *M.B., Ch.B., Cape Town, 1953; Ph.D., Oxon, 1962*
Donald F. Tapley. *B.S., Acadia, 1948; M.D., Chicago, 1952*

Gerard M. Turino. *B.A., Princeton, 1945; M.D., Columbia, 1948*
I. Bernard Weinstein. *M.D., Wisconsin, 1955*

ASSOCIATE PROFESSORS OF CLINICAL MEDICINE

John B. Baldwin, Jr. *M.D., Columbia, 1939*
Stuart W. Cosgriff. *B.A., Holy Cross, 1938; M.D., Columbia, 1942*
Shirley C. Fisk. *B.A., Yale, 1931; M.D., Columbia, 1935*
David J. Gocke. *B.A., St. Vincent's, 1954; M.D., Pennsylvania, 1958*
Donald A. Holub. *B.A., Columbia, 1949; M.D., 1952*
Albert R. Lamb, Jr. *B.A., Yale, 1936; M.D., Columbia, 1940*
Edgar Leifer. *B.S., College of the City of New York, 1937; M.A., Columbia, 1939; Ph.D., 1941; M.D., 1946*
George W. Melcher. *B.A., Colorado, 1943; M.D., Columbia, 1946*
Kermit L. Pines. *B.A., Columbia, 1937; M.D., 1942*

ASSOCIATE CLINICAL PROFESSORS

Hylan Bickerman. *B.A., Columbia, 1934; M.D., New York University, 1939*
George A. Carden. *Ph.D., Yale, 1931; M.D., Columbia, 1935*
Edward E. Fischel. *B.A., Columbia, 1941, M.D., 1944*
Robert A. Kritzler. *B.A., Columbia, 1936; M.D., Cornell, 1940*
John H. McClement. *B.A., Syracuse, 1938; M.D., Rochester, 1943*
Alfred Steiner. *B.S., Richmond, 1930; M.D., Medical College of Virginia, 1933; Med.Sc.D., Columbia, 1938*
Herbert B. Wilcox, Jr. *B.A., Yale, 1930; M.D., Columbia, 1934*
John A. Wood. *B.A., Harvard, 1943; M.D., 1946*

ASSISTANT PROFESSORS

Leslie Baer. *B.A., Wisconsin, 1959; M.D., Columbia, 1963*
Arthur Bank. *B.A., Columbia, 1956; M.D., 1960*
John T. Bigger. *B.A., Emory, 1955; M.D., Georgia, 1960*
John L. Buchanan. *B.A., Dartmouth, 1953; M.D., Harvard, 1960*
Robert E. Burch. *B.S., St. Louis, 1955; M.D., 1959*
Peter R. B. Caldwell. *B.A., Dartmouth, 1954; M.D., Harvard, 1958*
F. David Kitchin. *M.B., Ch.B., Liverpool, 1947*
Abbie I. Knowlton. *B.A., Bryn Mawr, 1938; M.D., Columbia, 1942*
E. Carwile Leroy. *B.S., Wake Forest, 1955; M.S., North Carolina, 1958; M.D., 1960*
John Lindenbaum. *B.A., Cornell, 1954; M.D., Harvard, 1959*
John N. Loeb. *B.A., Harvard, 1957; M.D., 1961*
David J. McConnell. *B.A., Cornell, 1958; M.D., Yale, 1962*
Thomas Q. Morris. *B.S., Notre Dame, 1954; M.D., Columbia, 1958*
Jane H. Morse. *B.A., Smith, 1951; M.D., Columbia, 1955*
Richard Rivlin. *B.A., Harvard, 1955; M.D., 1959*
Henry M. Thomas III. *B.A., Haverford, 1957; M.D., Johns Hopkins, 1961*

ASSISTANT PROFESSOR OF MEDICAL SOCIAL WORK

Elizabeth R. Prichard. *B.A., Adelphi, 1943; M.S., New York School of Social Work, 1947*

ASSISTANT PROFESSORS OF CLINICAL MEDICINE

John Van B. Dean. *B.A., Yale, 1939; M.D., Columbia, 1943*
Wendell B. Hatfield. *B.A., Columbia, 1953; M.D., 1956*

Hans W. Neuberg. *B.A., Wagner, 1941; M.D., Columbia, 1950*
Joseph G. Sweeting. *B.S., Holy Cross, 1952; M.D., Columbia, 1956*
Robert T. Whitlock. *B.A., North Carolina, 1950; M.D., 1957*
Carl R. Wise. *M.D., Harvard, 1932*

ASSISTANT CLINICAL PROFESSORS

Casco Alston, Jr. *B.A., Pennsylvania, 1936; M.D., Harvard, 1942*
Alfred E. Brewer. *B.A., Columbia, 1937; M.D., New York University, 1941*
John O. Burris. *B.S., Wyoming, 1952; M.D., Rochester, 1956*
Henry Colcher. *C.S.N.M., Brussels, 1933; M.D., 1937*
Clarence J. D'Alton. *B.A., Yale, 1939; M.D., Columbia, 1943*
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Helen Schueman. *Ph.D., New York University, 1957*

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Winifred Winikus. *M.S., Columbia, 1949*

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James B. Rodgers. *B.A., Virginia, 1944; M.D., 1948*
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Charles F. Stewart. *M.D., Columbia, 1938*

ASSISTANT CLINICAL PROFESSORS

John T. Brennan, Jr. *M.D., Harvard, 1950*
David M. Carberry. *Ph.B., Providence, 1947; M.D., Jefferson, 1951*
Paul D. Harris. *B.A., Princeton, 1954; M.D., Columbia, 1958*
Peter LaMotte. *B.A., Trinity, 1947; M.D., George Washington, 1955*
James A. MacDonald. *B.A., Princeton, 1948; M.D., Columbia, 1950*

Andrew Patterson. *B.A., North Carolina, 1954; M.D., Columbia, 1958*
Cedric J. Priebe, Jr. *B.S., Fordham, 1951; M.D., Cornell, 1955*
James H. Terry, Jr. *B.S., Arizona, 1949; M.D., Columbia, 1953*
T. Scudder Winslow. *B.A., Princeton, 1938; M.D., Cornell, 1942*
Chin Bor Yeoh. *B.A., Yale, 1953; M.D., Harvard, 1957*

INSTRUCTORS

H. Clay Alexander
Thomas H. Dailey

INSTRUCTORS (*continued*)

Clarence A. Dunn, Jr.
James C. Parkes III

► AT ST. LUKE'S HOSPITAL

CLINICAL PROFESSOR

John P. West. *B.S., Alabama Polytechnic, 1927; M.D., Cornell, 1932*

ASSOCIATE CLINICAL PROFESSORS

Hugh F. Fitzpatrick. *B.S., Creighton, 1942; M.D., 1943*
W. Graham Knox. *B.A., Columbia, 1939; M.D., 1942*
Colin W. McCord. *B.A., Williams, 1949; M.D., Columbia, 1953*
Richard B. Stark. *B.A., Stanford, 1936; M.D., Cornell, 1941*

ASSISTANT CLINICAL PROFESSORS

Robert T. Edmunds. *B.A., Harvard, 1946; M.D., Columbia, 1951*
Robert F. Fraser. *B.A., Dartmouth, 1931; M.D., Columbia, 1934*
Robert McCabe. *B.A., Williams, 1948; M.D., Cornell, 1953*
Carl S. Oakman. *B.A., Harvard, 1933; M.D., Tufts, 1943*
Robert W. Schick. *B.A., Columbia, 1948; M.D., New York Medical College, 1952*
Edward G. Stanley-Brown. *M.D., Pennsylvania, 1948*

INSTRUCTORS

Charles R. Blair
Peter A. Bossart
Clayton R. De Haan

INSTRUCTORS (*continued*)

Robert E. Miller
Alfred Moscarella
Howard Nay

ASSISTANTS

Leif O. Holgersen
Lawrence F. Simon
John J. White

UROLOGY

PROFESSOR

John K. Lattimer, *chairman.* *B.A., Columbia, 1935; M.D., 1938; Med.Sc.D., 1943*

PROFESSOR OF CLINICAL UROLOGY

Ralph J. Veenema. *B.A., Calvin, 1942; M.D., Jefferson, 1945*

ASSOCIATE PROFESSOR OF PATHOLOGY

Myron Tannenbaum. *B.S., New York University, 1952; M.S., 1955; Ph.D., 1957; M.D., Chicago, 1961*

ASSOCIATE PROFESSOR OF CLINICAL UROLOGY

Hans H. Zinsser. *B.S., Harvard, 1938; M.D., Columbia, 1942*

ASSOCIATE CLINICAL PROFESSORS

Stanley B. Braham. *B.A., Columbia, 1944; M.D., 1947*
Myron S. Roberts. *B.A., Syracuse, 1950; M.D., State University of New York (Syracuse), 1954*

ASSISTANT PROFESSOR

Harry Seneca. *M.D., American University of Beirut, 1933; M.S., Tulane, 1943*

ASSISTANT PROFESSOR OF PHYSIOLOGY

Richard C. Mason. *Ph.D., Indiana, 1952*

ASSISTANT PROFESSOR OF CLINICAL UROLOGY

Aurelio Uson. *M.D., Barcelona (Spain), 1950*

ASSISTANT CLINICAL PROFESSORS

J. Timothy Donovan. *M.D., New York Medical College, 1948*
Louis J. Dougherty. *B.A., Yale, 1950; M.D., Cornell, 1954*
Michael W. Justice. *B.A., Kansas, 1950; M.D., 1954*
Frank W. Longo. *B.S., Maryland, 1951; M.D., 1955*
Sandor H. Wax. *B.S., Boston, 1949; M.S., Union, 1950; M.D., Tufts, 1954*

ASSOCIATES
Peter N. DeSanctis
Paul K. Maloney
Moshe Markewitz
Peter J. Puchner
Ralph C. Yeaw

ASSOCIATE IN PATHOLOGY
Philip Tomashefsky

RESEARCH ASSOCIATES
Stanford Pulrang
Jean Todd

RESEARCH ASSOCIATES (*continued*)
Robert A. Turner

INSTRUCTORS
Clement A. Furey, Jr.
Robert Granato
John P. Grant, Jr.
Paul Tucci
Robert R. White
Arthur T. Willetts

INSTRUCTOR IN PSYCHIATRY
William W. Garitano

ASSISTANTS
Richard Fadil
Stanley J. Landau
Harold Tara

SPECIAL LECTURERS
Bruno Fingerhut
Meyer M. Melicow

► AT MARY IMOGENE BASSETT HOSPITAL

ASSOCIATE CLINICAL PROFESSOR OF SURGERY

Rodman D. Carter. *B.A., Harvard, 1950; M.D., Columbia, 1954*

► AT HARLEM HOSPITAL

ASSISTANT CLINICAL PROFESSOR

Harold A. Garnes. *B.S., College of the City of New York, 1944; M.D., Howard, 1951*

INSTRUCTOR
Urbano K. Guarin

Internship Placement: Class of 1970

Albro, Peter C. *Harborview Medical Center, Seattle, Wash.*

Balch, Thomas S. *Los Angeles County U.S.C. Medical Center, Los Angeles, Calif.*

Benoit, Kenneth G. *Roosevelt Hospital, New York, N.Y.*

Berger, Michael D. *Tucson Hospitals Medical Education Program, Tucson, Ariz.*

Bergman, William L. *Denver General Hospital, Denver, Colo.*

Blank, Howard L. *Bellevue Hospital, New York, N.Y.*

Bogdasarian, John R. *University Hospital, Boston, Mass.*

Bordley, James, IV *Mary Imogene Bassett Hospital, Cooperstown, N.Y.*

Boucher, Richard C. *Presbyterian Hospital, New York, N.Y.*

Brown, Arthur S. *Harlem Hospital, New York, N.Y.*

Brown, George C. *Roosevelt Hospital, New York, N.Y.*

Brunn, Frederick M., Jr. *St. Luke's Hospital, New York, N.Y.*

Buchanan, Steven C. *Emory University Hospital-V.A., Atlanta, Ga.*

Budetti, Peter P. *San Francisco General, San Francisco, Calif.*

Burks, John M. *University of California Program, San Francisco, Calif.*

Burton, David A. *Massachusetts General, Boston, Mass.*

Carlson, Richard G. *Lincoln Hospital, New York, N.Y.*

Carmichael, Daniel H. *Barnes Hospital, St. Louis, Mo.*

Carson, Dennis A. *University Hospital of San Diego County, San Diego, Calif.*

Cassidy, Bruce A. *St. Luke's Hospital, New York, N.Y.*

Chang, Paul *New York Memorial Hospital, New York, N.Y.*

Charlesworth, David C. *Mary Hitchcock Memorial Hospital, Hanover, N.H.*

Cinberg, James Z. *Mount Sinai Hospital, New York, N.Y.*

Cole, Stephen A. *Roosevelt Hospital, New York, N.Y.*

Combs, Robert L. *Mary Imogene Bassett Hospital, Cooperstown, N.Y.*

Corcoran, David M. *Roosevelt Hospital, New York, N.Y.*

Cross, Alan W. *Strong Memorial Hospital, Rochester, N.Y.*

Dickinson, Philemon *Roosevelt Hospital, New York, N.Y.*

Dilley, Russell S. *Mary Imogene Bassett Hospital, Cooperstown, N.Y.*

Dingeldein, George P. *North Carolina Memorial Hospital, Chapel Hill, N.C.*

Esposito, John L. *St. Luke's Hospital, New York, N.Y.*

Fauer, Ronald B. *Los Angeles County U.S.C. Medical Center, Los Angeles, Calif.*

Foulks, Gary N. *University Hospital of San Diego County, San Diego, Calif.*

Fried, Jane Eliot *Roosevelt Hospital, New York, N.Y.*

Furgang, Fred A. *University of Miami Affil. Hospitals, Miami, Fla.*

Goldwater, W. Eugene *New York Polyclinic Hospital, New York, N.Y.*

Goodman, Neil F. *Beth Israel Hospital, Boston, Mass.*

Gratwick, Geoffrey M. *Harlem Hospital, New York, N.Y.*

Greenberg, Harry B. *Bellevue Hospital, New York, N.Y.*

Gusberg, Richard J. *Presbyterian Hospital, New York, N.Y.*

Gustavson, Paul F., Jr. *San Francisco General Hospital, San Francisco, Calif.*

Guthrie, Gordon P., Jr. *Roosevelt Hospital, New York, N.Y.*

Guy, Matthew J. *Maimonides Hospital, New York, N.Y.*

Hazard, William L. *Rhode Island Hospital, Providence, R.I.*

Hein, Karen K. *Bronx Municipal Hospital Center, New York, N.Y.*

Helming, Charles V. *Beth Israel Hospital, Boston, Mass.*

Henderson, I. Craig *Presbyterian Hospital, New York, N.Y.*

Hickey, Paul R. *Presbyterian Hospital, New York, N.Y.*

Hoche, John P. *Vanderbilt University Hospital, Nashville, Tenn.*

Hofmann, Peter L. *Roosevelt Hospital, New York, N.Y.*

Howe, Edmund G., III *Harlem Hospital, New York, N.Y.*

Jones, Edward C. *Roosevelt Hospital, New York, N.Y.*

Kasparek, Sally J. *Lenox Hill Hospital, New York, N.Y.*

Kates, Richard J. *Johns Hopkins Hospital, Baltimore, Md.*

Kohl, Steve *Bronx Municipal Hospital Center, New York, N.Y.*

Kronenberg, Gretchen *Massachusetts General Hospital, Boston, Mass.*

Kronenberg, Henry M. *Massachusetts General Hospital, Boston, Mass.*

Lang, S. David *Harborview Medical Center, Seattle, Wash.*

Leichtling, Jonathan *Mount Sinai Hospital, New York, N.Y.*

Li, Florence C. *St. Vincents Hospital, New York, N.Y.*

Liberman, Arthur R. *St. Luke's Hospital, New York, N.Y.*

Lichtenberg, Stephen *St. Luke's Hospital, New York, N.Y.*

Lipson, Diane *Roosevelt Hospital, New York, N.Y.*

Loriceo, Danné R. *St. Luke's Hospital, New York, N.Y.*

Lundberg, Walter B., Jr. *Beth Israel Hospital, Boston, Mass.*

McFarlane, William R., Jr. *Bronx Municipal Hospital Center, New York, N.Y.*

McMath, Jonathan C. *Presbyterian Medical Center, Denver, Colo.*

Madigan, John C., Jr. *Presbyterian Hospital, New York, N.Y.*

Massie, Barry M. *Bellevue Hospital, New York, N.Y.*

Middleton, Robert S. *North Carolina Memorial Hospital, Chapel Hill, N.C.*

Moyer, Peter H. *Presbyterian Hospital, New York, N.Y.*

Mudge, Gilbert H., Jr. *Presbyterian Hospital, New York, N.Y.*

Norris, Tom R., Jr. *San Francisco General Hospital, San Francisco, Calif.*

Nowygrod, Roman *Presbyterian Hospital, New York, N.Y.*

Osborn, Harold H. *Lincoln Hospital, New York, N.Y.*

Parry, Michael F. *Presbyterian Hospital, New York, N.Y.*

Patterson, Thomas H. *University of Alabama Medical Center, Birmingham, Ala.*

Pepe, Anthony J. *Harlem Hospital, New York, N.Y.*

Pessar, Linda F. *Roosevelt Hospital, New York, N.Y.*

Peterson, Phillip K. *Presbyterian Hospital, New York, N.Y.*

Provine, Martha A. M. *Maimonides Hospital, New York, N.Y.*

Quest, Donald O. *Massachusetts General Hospital, Boston, Mass.*

Ramsey, William H. *Harlem Hospital, New York, N.Y.*

Raviola, Carol A. *University of California Medical Center, San Francisco, Calif.*

Rice, Thomas A. *San Francisco General Hospital, San Francisco, Calif.*

Richardson, William W. *St. Luke's Hospital, New York, N.Y.*

Riely, Caroline A. *Presbyterian Hospital, New York, N.Y.*

Rodman, John S. *New York Memorial Hospital, New York, N.Y.*

Rothenberg, Ronald N. *Children's Hospital, Denver, Colo.*

Sarnoff, Karen A. *Bronx Municipal Hospital Center, New York, N.Y.*

Schachtel, Bernard P. *Yale-New Haven Medical Center, New Haven, Conn.*

Schmidt, Robert M. *University Hospital of San Diego County, San Diego, Calif.*

Self, E. Baldwin, Jr. *Roosevelt Hospital, New York, N.Y.*

Shafer, Stephen Q. *Harlem Hospital, New York, N.Y.*

Singer, Mark I. *Presbyterian-St. Luke's Hospital, Chicago, Ill.*

Siris, Samuel G. *Mount Sinai Hospital, New York, N.Y.*

Sondheimer, Henry M. *Colorado Medical Center, Denver, Colo.*

Sondheimer, Judith M. *Colorado Medical Center, Denver, Colo.*

Spiegel, Richard M. *Presbyterian Hospital, New York, N.Y.*

Spotnitz, Alan J. *Beth Israel Hospital, Boston, Mass.*

Starkebaum, Gordon A. *Harborview Medical Center, Seattle, Wash.*

Tansey, William A., III *St. Luke's Hospital, New York, N.Y.*

Tapper, Michael L. *Harlem Hospital, New York, N.Y.*

Taylor, James L. *Presbyterian Hospital, New York, N.Y.*

Tice, Alan D. *Roosevelt Hospital, New York, N.Y.*

Tindall, Richard S. *University of Minnesota Hospitals, Minneapolis, Minn.*

Wallach, Ronald *Presbyterian Hospital, New York, N.Y.*

Walworth, Candace C. *Mary Hitchcock Memorial Hospital, Hanover, N.H.*

Walworth, Edward Z. *Mary Hitchcock Memorial Hospital, Hanover, N.H.*

West, Olin L. *Harlem Hospital, New York, N.Y.*

Whittemore, Anthony D. *Presbyterian Hospital, New York, N.Y.*

Wightman, Mark A. *Mary Imogene Bassett Hospital, Cooperstown, N.Y.*

Woodcock, Thomas M. *New York Memorial Hospital, New York, N.Y.*
Wrigley, Keith A., Jr. *Strong Memorial Hospital, Rochester, N.Y.*
Zakov, Zvetan N. *Presbyterian Hospital, New York, N.Y.*
Zimmerman, Andrew W. *University of Michigan Affil. Hospital, Ann Arbor, Mich.*
Zuckerman, Alan E. *Johns Hopkins Hospital, Baltimore, Md.*

Class of 1971

Ames, Elizabeth D. Highland Park, Ill.
B.A., Radcliffe, 1965
Apfel, Franklin Jay New York, N.Y.
B.A., Swarthmore, 1967
Avery, Gaylord James, II Old Greenwich, Conn.
B.A., Yale, 1967
Baker, John Drayton Far Hills, N.J.
B.A., Princeton, 1967
Barnett, Jeffrey David Scarsdale, N.Y.
B.S., Tufts, 1967
Barrett, David Hale Santa Barbara, Calif.
B.A., Dartmouth, 1967
Bedwinek, John Morris Wheeling, W.Va.
B.A., Oberlin, 1967
Belgraier, Arnold Harvey New York, N.Y.
B.A., Boston, 1967
Berenberg, Richard Alan Brookline, Mass.
B.A., Harvard, 1967
Berkman, Alan Middletown, N.Y.
B.A., Cornell, 1967
Berkowitz, Fred Pittsburgh, Pa.
B.A., Washington & Jefferson, 1967
Braun, Jory Lewis Great Neck, N.Y.
B.A., Duke, 1967
Brensilver, Jeffrey Michael Valley Stream, N.Y.
B.A., Columbia, 1967
Brown, Frederick Gordon West Orange, N.J.
B.A., Princeton, 1963
Bruno, Leonard A. Springfield, Pa.
B.A., Princeton, 1967
Buhl, Walter Richard Slayton, Minn.
B.A., Yale, 1967
Chambers, Richard Byron New York, N.Y.
B.S., City College of the City University of New York, 1967
Chodoff, Mark Edward Chevy Chase, Md.
B.S., Yale, 1967
Clyman, Ronald Ian Scarsdale, N.Y.
B.A., Amherst, 1967
Coe, Eric Harry Baton Rouge, La.
B.S., Massachusetts Institute of Technology, 1967
Cohen, Daniel Elliot New York, N.Y.
B.A., Columbia, 1967
Conard, Frederick Underwood, III West Hartford, Conn.
B.A., Wesleyan, 1967
David, Sami Salim Great Neck, N.Y.
B.A., Columbia, 1967
deCiutiis, Alfred Charles New York, N.Y.
B.S., Fordham, 1967
De Jong, Russell Nelson, Jr. Ann Arbor, Mich.
B.S., Michigan, 1967
Dietzgen, Walter Anthony Highland Park, Ill.
B.A., Columbia, 1967
Doblin, Ellen Margaret Jamaica, N.Y.
B.A., Wellesley, 1967
Drew, Thomas Martin Barrington, R.I.
B.A., Wesleyan, 1967
Edoga, John Kingsley Westport, Conn.
B.A., Columbia, 1967
Eggers, Arnold Edwin New York, N.Y.
B.A., Columbia, 1967
Eggers, Howard Milliren New York, N.Y.
B.A., Columbia, 1967
Engleman, Edgar George San Mateo, Calif.
B.A., Harvard, 1967
Evans, James Folpmers Wilton, Conn.
B.A., Princeton, 1967
Fass, Steven Joshua New York, N.Y.
B.A., Hamilton, 1967
Fischer, William John Henry, III Providence, R.I.
B.A., Yale, 1966
Freese, Kenneth Jay New York, N.Y.
B.S., Hobart, 1967
Gann, Erik New York, N.Y.
B.A., Yale, 1967
Gluckman, Stephen John Roslyn, N.Y.
B.A., Brown, 1967
Gold, Jon William New York, N.Y.
B.A., Columbia, 1965
Goozner, Barry Edward North Woodmere, N.Y.
B.A., Johns Hopkins, 1967

Greene, Jonathan Isaac Paterson, N.J.
B.A., Pennsylvania, 1967
Gunther, Stephen Jerome Galesburg, Ill.
B.A., Illinois, 1967
Gustafson, Dennis Herbert Salt Lake City, Utah
B.A., Princeton, 1967
Halper, James P. Fresh Meadows, N.Y.
B.A., Columbia, 1965
Hammer, Mark Eugene Brentwood, Mo.
B.S., Yale, 1966
Harbison, William Arthur Princeton, N.J.
B.A., Oberlin, 1967
Hartwell, Patricia Lee Evanston, Ill.
B.A., Northwestern, 1967
Hayashi, Curt Upper Nyack, N.Y.
B.A., Harvard, 1966
Hickes, Robert George Great Falls, Mont.
B.A., Columbia, 1967
Hill, George S., Jr. Anchorage, Ky.
B.A., Yale, 1966
Hinrichs, William Alden Douglas, Wyo.
B.S., Harvard, 1966
Holt, Joseph Williams, III Schenectady, N.Y.
B.A., Princeton, 1967
Iacobellis, Frank William Pelham Manor, N.Y.
B.A., Holy Cross, 1967
Icenhower, William B. Drexel Hill, Pa.
B.A., Princeton, 1962
Janowitz, Kenneth George New York, N.Y.
B.S., City College of the City University of New York, 1967
Johnson, Martin McDermid Brookings, S.D.
B.S., South Dakota, 1967
Jones, Charles Max Asheville, N.C.
B.A., North Carolina, 1968
Kachel, Richard Gary New York, N.Y.
B.A., Lehigh, 1967
Kelly, Edward Allen Atlanta, Ga.
B.A., Davidson, 1967
Kennedy, Timothy Chesney Tucson, Ariz.
B.A., Yale, 1965
M.A., Arizona, 1967
Koliner, Charles Michael Broomall, Pa.
B.S., U.S. Air Force Academy, 1966
M.S., Columbia, 1967
Lanning, Richard Cornforth Pittsburgh, Pa.
B.S., Stanford, 1967
Larsen, Gary Loy Wahoo, Neb.
B.S., Nebraska, 1967
Lazarus, George Mitchell Whitestone, N.Y.
B.A., Yale, 1967
Leavitt, Ronald Joel Great Neck, N.Y.
B.A., Brown, 1967
Lenke, Roger Rand Great Neck, N.Y.
B.A., Dartmouth, 1968
Lessey, Robert A. Wilmington, Del.
B.A., Yale, 1966
Levy, Mark Ivan West Hempstead, N.Y.
B.A., Columbia, 1967
Lynch, Thomas John Hamilton, N.Y.
B.A., Colgate, 1967
Marshall, Robert Andrew Syracuse, N.Y.
B.A., Syracuse, 1967
Mayer, James William Santa Fe, N.M.
B.A., Colorado College, 1967
McCarthy, David Murray Madison, N.J.
B.A., Yale, 1967
McDougal, John Steven Grand Rapids, Mich.
B.A., Amherst, 1967
McNeil, George Neal, Jr. Weston, Mass.
B.A., Amherst, 1967
Meny, Robert George Fort Lauderdale, Fla.
B.S., Tulane, 1966
Migel, Peter Forshew Northfield, Ill.
B.A., Middlebury, 1967
Miller, Zachary Ian New York, N.Y.
B.A., Brandeis, 1967
Mithen, Francis Andrew Wells, Me.
B.S., Tufts, 1967
Moskowitz, Reed Craig Donovan New York, N.Y.
B.A., Columbia, 1967
Moulton, Anthony LeRoy Limerick, Me.
B.A., Bowdoin, 1967
Mouradian, William Henry New York, N.Y.
B.S., Trinity, 1968
Neill, Mather Humphrey, Jr. Manchester, Conn.
B.A., Amherst, 1967
Newman, John Hughes Nashville, Tenn.
B.A., Harvard, 1967
Obedzinski, John Eugene Syracuse, N.Y.
B.A., Colgate, 1967
Oster, Martin William New York, N.Y.
B.A., Columbia, 1967
Owens, Henry Howard Atlanta, Ga.
B.A., Princeton, 1967
Padula, Joseph P. New York, N.Y.
B.A., Princeton, 1967
Palfrey, Judith S. Cambridge, Mass.
B.A., Radcliffe, 1967
Palmer, Henry Ricketts Chicago, Ill.
B.A., Oberlin, 1966
Parkins, George Kyle Eldon, Mo.
B.A., Westminster, 1967
Pendleton, Eugene Banks Atlanta, Ga.
B.S., Davidson, 1967
Pickering, Richard Stephen Kearny, Ariz.
B.A., Utah, 1967

Pierce, Donald Alfred Greenville, N.C.
B.S., Yale, 1967
Popik, William Colman Redwood City, Calif.
B.A., Yale, 1967
Prendergast, John Clemons, Jr. Poultney, Vt.
B.A., Williams, 1967
Rand, Lawrence Ira New York, N.Y.
B.A., Columbia, 1966
Randall, Derek G. New York, N.Y.
B.A., Columbia, 1967
Ratzan, Richard Martyn New York, N.Y.
B.A., Trinity, 1967
Ratzan, Susan K. Hoosiok Falls, N.Y.
B.A., Skidmore, 1967
Redmond, Geoffrey Plimsoll New York, N.Y.
B.A., Cornell, 1964
M.A., Virginia, 1965
Richman, Steven D. New York, N.Y.
B.A., Columbia, 1967
Roberts, Thomas Luther, III Fort Lauderdale, Fla.
B.A., Duke, 1967
Ruckert, Gustave Theodore, IV Rochester, N.Y.
B.S., Trinity, 1967
Savidge, George Paul Blue Hill, Me.
B.A., Princeton, 1967
Schaffner, Donald P. New York, N.Y.
B.S., Bucknell, 1969
Scheinman, Richard Paul Bronx, N.Y.
B.A., Swarthmore, 1966
Schermerhorn, John Joseph Ridgefield Park, N.J.
B.S., Fairleigh Dickinson, 1967
Schoenfeldt, Richard Scott Vandenberg A.F.B., Calif.
B.A., Claremont Men's College, 1967
Schulze, Robert Allison, Jr. Wilmington, Del.
B.A., Hamilton, 1967
Silverman, Ethel Martha Clifton, N.J.
B.A., Radcliffe, 1967
Slater, Eve Elizabeth Spring Lake, N.J.
B.A., Vassar, 1967
Smith, William McIntosh New York, N.Y.
B.A., College of Wooster, 1962
Soong, John Louis, Jr. Hong Kong, B.C.C.
B.A., Princeton, 1967
Southern, Darrell Loren Des Moines, Iowa
B.A., Iowa, 1967
Spellman, George Geneser, Jr. Sioux City, Iowa
B.A., Holy Cross, 1967
Sprenkle, Arthur Collin Canonsburg, Pa.
B.A., Columbia, 1967
Stark, Raymond Irwin Denver, Colo.
B.A., Columbia, 1963
Stone, Charles Lynn, Jr. Cold Spring Harbor, N.Y.
B.A., Yale, 1965
Sturges, Stephen Patterson Omaha, Neb.
Tubridy, Frank Joseph Kearny, N.J.
B.A., Yale, 1966
Vaughan, James Edward Binghamton, N.Y.
B.A., Hamilton, 1967
Wall, Alexander James, III Sturbridge, Mass.
B.S., Union, 1967
Weber, Collin James Audubon, Iowa
B.A., Princeton, 1967
Welch, Martha Grace Rye, N.Y.
B.A., New York University, 1966
White, Benjamin Winthrop St. James, L.I., N.Y.
B.A., Harvard, 1967
Wood, Daniel Hopkins South Fort Mitchell, Ky.
B.A., Wesleyan, 1967
Zeller, Barbara Carol West Hartford, Conn.
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Class of 1972

Barkin, Neil Jay Great Neck, N.Y.
B.S., Union, 1968
Bell, Christopher Pember White Plains, N.Y.
B.A., Brown, 1967
Bent, George Independence, Ohio
B.A., Trinity, 1966
Bessman, Joel D. Baltimore, Md.
B.A., Columbia, 1967
Black, Thomas Jeffrey Kenton, Ohio
B.S., Michigan, 1968
Bogdasarian, Michael Alan Binghamton, N.Y.
B.A., Michigan, 1968
Boucher, Charles Allen Flushing, N.Y.
B.A., Cornell, 1968

Bower, James Stephen Madison, Wisc.
B.S., Harvard, 1968
Boxer, Robert Alan Metuchen, N.J.
B.A., Rutgers, 1968
Cabot, Anthony Pelham Manor, N.Y.
B.A., Hobart, 1968
Carlson, Robert Howard Montclair, N.J
B.A., Columbia, 1968
Chan, Philip Oceanside, N.Y.
B.A., Harvard, 1968
Ciafone, Russell Anthony Huntington, N.Y.
B.A., Princeton, 1968
Collins, Lucy Emerson Cambridge, Mass.
B.A., Radcliffe, 1964
Curtis, David Lambert Salt Lake City, Utah
B.A., Colgate, 1968
Curtis, John Ashton Haverford, Pa.
B.A., Hamilton, 1968
Daines, Joseph Gordon, Jr. Boise, Idaho
B.S., Utah, 1968
Dann, Francis Joseph New York, N.Y.
B.A., Columbia, 1968
Davis, George Fabyan New York, N.Y.
B.A., Harvard, 1968
Dickens, Michael Douglas Atlanta, Ga.
B.A., Princeton, 1968
Dienstag, Jules Leonard Forest Hills, N.Y.
B.A., Columbia, 1968
Dresdale, Robert Jay Brooklyn, N.Y.
B.A., Brown, 1968
Dresdale, Susan Spear Manhasset, N.Y.
B.A., Wellesley, 1968
Durbin, William Applebee, Jr. Wabon, Mass.
B.A., Dartmouth, 1968
Edelman, Stuart Edward Flushing, N.Y.
B.S., Trinity, 1968
Eisenstein, Barry Ira Woodmere, N.Y.
B.A., Kenyon, 1968
English, Woodruff Jones, II Summit, N.J.
B.A., Princeton, 1968
Evans, Jonathan Lynn Pittsburgh, Pa.
B.S., Grove City, 1969
Finck, Arthur Donald Palisades, N.Y.
B.S., Lafayette, 1968
Fleming, Richard Elliot, Jr. Chatham, N.J.
B.A., Princeton, 1968
Foster, Catherine Mary Minneapolis, Minn.
B.A., Barnard, 1968
Foster, Craig Richard Wilton, Conn.
B.A., Yale, 1968
Frankel, Martin Jay Freeport, N.Y.
B.A., Columbia, 1968
Friedman, Peter Laurence Clayton, Mo.
B.S., Oberlin, 1968
Gessinger, John Robert Ridgewood, N.J.
B.A., Princeton, 1968
Ginsberg, Harry Michael Quincy, Mass.
B.A., Boston, 1968
Glasier, James Crocker Loudonville, N.Y.
B.A., Princeton, 1963
Green, Kenneth Richard Chestnut Hill, Mass.
B.A., Bowdoin, 1968
Greenberg, Robert Samuel Princeton, N.J.
B.A., Yale, 1968
Guinther, Jay Paul Cranford, N.J.
B.A., Wesleyan, 1968
Hadler, James Loggins Washington, D.C.
B.S., McGill, 1968
Hamilton, Robert Hepburn Grosse, Pointe, Mich.
B.S., Michigan, 1968
Hamilton, Ross Teen St. Albans, N.Y.
B.A., Syracuse, 1968
Hammer, Scott Mel New York, N.Y.
B.A., Columbia, 1968
Harrison, Edward Webb, Jr. Princeton, N.J.
B.A., Princeton, 1965
Hasselbacher, Peter Allendale, Camp Hill, Pa.
B.A., Wesleyan, 1968
Haupert, Garner Tripp, Jr. Medford, Ore.
B.A., Harvard, 1968
Hayward, Arthur D'Alanson Sikeston, Mo.
B.A., Yale, 1968
Hayward, Malcolm Lloyd, Jr. Rosemont, Pa.
B.A., Trinity, 1968
Henry, Douglas Charles Huntington, N.Y.
B.S., Muhlenberg, 1968
Hicks, John Trimmer Ann Arbor, Mich.
B.S., Michigan, 1968
Hillis, Leslie David Tyler, Tex.
B.A., Columbia, 1967
Horwitz, Marcus Aaron Elmira, N.Y.
B.S., Cornell, 1968
Huber, Philip Joseph, Jr. Royal Oak, Mich.
B.A., Yale, 1968
Johnson, Lawrence Bernard Camden, N.J.
B.A., Brown, 1968
Kasch, John Adkins Northbrook, Ill.
B.S., Duke, 1968
Kemeny, Mary Margaret Elizabeth, N.J.
B.A., Radcliffe, 1968
Kessler, Bruce Edward Northfield, Vt.
B.S., Tufts, 1968
Korn, Joseph Howard New York, N.Y.
B.S., City College (New York), 1968
Latting, Clifton Alonzo Chicago, Ill.
B.S., Columbia, 1968
Lau, William Kien Ki Honolulu, Hawaii
B.A., Hawaii, 1968
Leland, Anne Bronson New York, N.Y.
B.A., Radcliffe, 1968
Lincoln, Lawrence Jay Wilmington, Del.
B.S., Amherst, 1968

Link, Arthur Stanley, Jr. Princeton, N.J.
B.S., Davidson, 1968
Locke, Steven Eliot Englewood, N.J.
B.A., Cornell, 1968
Logan, Bruce David Swampscott, Mass.
B.A., Colby, 1967
Lotz, Michael Jay New York, N.Y.
B.A., Columbia, 1968
Lovell, Charles Frederick, Jr. Pilot Mountain, N.C.
B.A., Harvard, 1968
Lowy, Franklin David New York, N.Y.
B.A., Columbia, 1968
Malitz, Alan Jeffrey Scarsdale, N.Y.
B.S., Bucknell, 1968
Martindale, Peter Craig Newtown Square, Pa.
B.A., Johns Hopkins, 1968
Mathers, James Alexander Lamond, Jr. Englewood, N.J.
B.A., Bowdoin, 1967
Maulitz, Robert Marx Birmingham, Ala.
B.A., Harvard, 1968
Mayer, Thomas Roy Milwaukee, Wisc.
B.S., Wisconsin, 1968
McGreevy, Thomas Michael Vandalia, Ohio
B.S., Dayton, 1968
McGuire, Michael Francis St. Louis, Mo.
B.A., Columbia, 1968
McNeill, Douglas Hugh Briarcliff Manor, N.Y.
B.A., Hamilton, 1968
Menotti, Robert Amel Fayetteville, N.Y.
B.A., Syracuse, 1968
Mickell, John Joseph Peekskill, N.Y.
B.S., Manhattan, 1968
Miller, Wayne Alexander Homewood, Ill.
B.S., Michigan, 1968
Mintz, Jesse Michael West Hempstead, N.Y.
B.A., Rochester, 1968
Newmark, Michael Ede San Antonio, Tex.
B.A., Columbia, 1968
Newton, Leslie Stanz Wauwatosa, Wisc.
B.A., Yale, 1968
Norton, Larry Valley Stream, N.Y.
B.A., Rochester, 1968
Packard, William Michael Dansville, N.Y.
B.A., Hamilton, 1968
Pancoast, Stephen Joseph Manchester, N.H.
B.A., New Hampshire, 1968
Parmer, William Brent Great Neck, N.Y.
B.A., Columbia, 1968
Parry, Lynn Pasadena, Calif.
B.A., Vassar, 1966
Plakun, Eric Martin Laurelton, N.Y.
B.A., Hofstra, 1968
Porter, Robert Joseph, Jr. Rochester, N.Y.
B.A., Princeton, 1968
Pynoos, Robert Sydney Los Angeles, Calif.
B.A., Harvard, 1968
Reeves, Glen Irving Weiser, Idaho
B.A., Columbia, 1968
Reiffel, Robert Siskind Scarsdale, N.Y.
B.A., Yale, 1968
Resor, Stanley Rogers, Jr. Washington, D.C.
B.A., Yale, 1967
Robinson, Harry John, Jr. Short Hills, N.J.
B.S., Bucknell, 1968
Romney, Benjamin Mayer Mamaroneck, N.Y.
B.A., Dartmouth, 1969
Rousell, Charles Hiebert Buhler, Kans.
B.A., Harvard, 1968
Ryder, Robert Winsor Winchester, Mass.
B.A., Middlebury, 1968
Sacks, Linda Mann Philadelphia, Pa.
B.A., Pennsylvania, 1968
Sauvigne, Arthur E. Mineola, N.Y.
B.A., Providence, 1967
Schoene, Robert Brown Columbus, Ohio
B.A., Princeton, 1968
Scotton, Bruce Warren Urbana, Ill.
B.S., Illinois, 1968
Seale, William Boyer Port Arthur, Tex.
B.A., Colorado College, 1968
Sedlacek, Keith Wayne Valley Forge, Pa.
B.A., Harvard, 1966
Seplowitz, Alen Harvey Bronx, N.Y.
B.A., Columbia, 1968
Severinghaus, John Merrill Scarsdale, N.Y.
B.A., Princeton, 1968
Shaw, Peter K. Shaker Heights, Ohio
B.S., Muhlenberg, 1968
Shiftan, Thomas Andre Scarsdale, N.Y.
B.A., Virginia, 1968
Sigmond, Mark Bevers Northbrook, Ill.
B.A., Yale, 1968
Singal, Sarah Snell Rochester, N.Y.
B.A., Wellesley, 1968
Singer, Alfred Port Jervis, N.Y.
B.S., Massachusetts Institute of Technology, 1968
Slate, Jerome Lawrence Quincy, Mass.
B.A., Pennsylvania, 1968
Slutsky, Lawrence Joel Bayside, N.Y.
B.A., Trinity, 1968
Southwick, Frederick Seacrest New Haven, Conn.
B.A., Yale, 1968
Spevack, Susan Gail New Rochelle, N.Y.
B.A., Skidmore, 1967
Stanton, Robert Alan Great Neck, N.Y.
B.A., Williams, 1968
Stelzer, Paul Edward Elk Creek, Neb.
B.A., Abilene Christian, 1968

Stoeckle, David Bruce Darien, Conn.
B.A., Amherst, 1968
Stone, Richard Alan Newtown Centre, Mass.
B.A., Harvard, 1968
Straus, Stephen Ezra Brooklyn, N.Y.
B.S., Massachusetts Institute of Technology, 1968
Sutphen, James Leonard Newark, Ohio
B.A., Wesleyan, 1968
Taylor, Steven James Ogden, Utah
B.A., Columbia, 1968
Tomecki, Kenneth Joseph Brooklyn, N.Y.
B.A., Columbia, 1968
Van der Ziel, Cornelia H. J. Minneapolis, Minn.
B.A., Radcliffe, 1968
Vinci, Joseph Manuel Middletown, Conn.
B.A., Wesleyan, 1968
Walls, Joan Catherine Binghamton, N.Y.
B.A., Mount Holyoke, 1967
Weeks, Lionel Edwards, III Rockville Centre, N.Y.
B.A., Williams, 1968
Weininger, Richard B. Whitestone, N.Y.
B.S., City College (New York), 1966
Weis, Lawrence David Prospect, Ky.
B.A., Wesleyan, 1968
White, Phyllis Jeanne Bronxville, N.Y.
B.A., Manhattanville, 1968
Woodward, Randolph Craig Baltimore, Md.
B.A., Yale, 1967

Class of 1973

Alexander, Charles Beatty Sewickley, Pa.
B.A., Princeton, 1969
Altman, Philip New York, N.Y.
B.S.E.E., City College (New York), 1969
Armstrong, Bruce Charlotte, N.C.
B.A., Haverford, 1969
Armstrong, Carol Friedman New York, N.Y.
B.A., Bryn Mawr, 1969
Austin, Howard Albert, III New York, N.Y.
B.A., Yale, 1969
Barnard, William Lloyd, Jr. New York, N.Y.
B.A., Colgate, 1964
M.B.A., Rutgers, 1967
Bell, Edward Frank Washington, Pa.
B.A., Washington & Jefferson, 1969
Bellamy, Robert Edgar Sandusky, Ohio
B.S., Ohio State, 1968
Blackinton, Charles Harry Pasadena, Calif.
B.S., U.S. Naval Academy, 1961
Boyce, James Daniel Poultney, Vt.
B.A., Columbia, 1969
Brabbee, Gregory William Neenah, Wis.
B.A., Northwestern, 1969
Brown, Malcolm McDougal Lake Forest, Ill.
B.A., Yale, 1969
Bruen, Marian Anthon New York, N.Y.
B.A., Connecticut College, 1968
Calderbank, James Blake New Haven, Conn.
B.S., Yale, 1969
Carroll, David Stewart East Williston, N.Y.
B.A., Colgate, 1969
Chester, Alexander Campbell East Williston, N.Y.
B.S., Georgetown, 1969
Chiu, David Tak Wai Memphis, Tenn.
B.A., Missouri, 1969
Clapp, Richard Waldo Lewiston, Me.
B.A., Dartmouth, 1967
Collins, Steven James Toledo, Ohio
B.A., Kenyon, 1969
Craig, Edward Vincent New Milford, N.J.
B.A., Princeton, 1969
Creelman, Kevin Bremerton, Wash.
B.S., Washington (Seattle), 1968
Crone, Richard Allen Fort Lewis, Wash.
B.A., Washington, 1969
Custer, Lynn Alison Saddle River, N.J.
B.A., Mt. Holyoke, 1969
Davis, James Alan San Francisco, Calif.
B.A., California (Berkeley), 1969
Dean, Jurrien Hastings-on-Hudson, N.Y.
B.A., Columbia, 1969
Demarest, Gerald Birch III Westfield, N.J.
B.A., Colgate, 1969
DeNicola, Lucian Kenneth Manhasset, N.Y.
B.S., Bucknell, 1966
M.S., Bucknell, 1968
DeNisco, Anthony John New York, N.Y.
B.A., Columbia, 1969
DePasquale, Eugene Edward Southampton, N.Y.
B.A., Kenyon, 1969
Dericks, Gerald Henry, Jr. Tulsa, Okla.
B.A., Dartmouth, 1965
Dransfield, Douglas Alan Huntington, N.Y.
B.A., College of Wooster, 1969
Feinfeld, Linda Ellen Rye, N.Y.
B.A., Wisconsin, 1969
Finley, David H. Scarsdale, N.Y.
B.A., Johns Hopkins, 1969

Fraser, Patricia Ann New York, N.Y.
B.A., Manhattanville, 1969
Friedlander, Richard Paul Baltimore, Md.
B.A., Case Western Reserve, 1969
Gliklich, Jerry I. New York, N.Y.
B.A., Columbia, 1969
Goldberger, Mark Jay Perth Amboy, N.J.
B.A., Johns Hopkins, 1969
Greenberg, Roger Lee Denver, Colo.
B.A., Trinity, 1969
Grossbard, Elliott New York, N.Y.
B.A., Columbia, 1969
Grundfest, Sharon Frieda Belleville, N.J.
S.B.E.E., Massachusetts Institute of Technology, 1969
Hacken, Joan Beck Dobbs Ferry, N.Y.
B.A., Barnard, 1964
Hacker, Peter Sam New Hyde Park, N.Y.
B.S., Tufts, 1969
Hakes, Thomas Brion Indianapolis, Ind.
B.S., Rose Polytechnic Institute, 1967
Halsted, Douglas Oliver Cresskill, N.J.
B.A., Dartmouth, 1969
Handwerger, Richard Michael New York, N.Y.
B.A., Hunter, 1968
Hawkins, Katherine Ann Greenwich, Conn.
B.A., Manhattanville, 1969
Herbert, John Thomas Williamson, N.Y.
B.A., Columbia, 1969
Heyman, Richard Benjamin North Plainfield, N.J.
B.A., Columbia, 1969
Hoffmann, Peter Robert Teaneck, N.J.
B.A., Columbia, 1969
Huskins, Dennis George Hempstead, N.Y.
B.A., Wesleyan, 1968
Hutcheon, David Forbes Livingston, N.J.
B.A., Yale, 1969
Johnson, Sara Jane Southampton, N.Y.
B.A., Smith, 1968
Kalter, Joshua Orlinoff Holyoke, Mass.
B.A., Yale, 1969
Kaye, Jefferson James Coral Gables, Fla.
B.A., Duke, 1969
Keddington, Robert Samuel Salt Lake City, Utah
B.S., Utah, 1969
Kouzmanoff, Alan Port Chester, N.Y.
B.A., Columbia, 1969
Kvam, David Adolph Litchfield, Minn.
B.S., St. Olaf, 1969
Lake, Alan Shanley Blackfoot, Idaho
B.A., Columbia, 1967
Leahey, Edward Berry, Jr. South Nyack, N.Y.
B.A., Fordham, 1969
Leahy, Dennis Robert Wilmette, Ill.
B.A., Princeton, 1969
Leimert, Joseph Thompson Hohokus, N.J.
B.A., McGill, 1969
Lipton, Mitchel Alfred West Orange, N.J.
B.A., Rutgers, 1969
Lombardo, John Wynne New York, N.Y.
B.A., Columbia, 1969
Luken, Martin Gerard, III Chicago, Ill.
B.S., Georgetown, 1969
Lupovici, Mihai Z. New York, N.Y.
B.A., New York University, 1969
Lynn, Stephan Gordon Hammond, Ind.
B.A., Swarthmore, 1969
Lyons, David Chandler Kenilworth, Ill.
B.A., Yale, 1965
M.B.A., Harvard, 1967
McAuliffe, Vincent Joseph Teaneck, N.J.
B.S., Boston College, 1969
McConnell, Robert John Whitesboro, N.Y.
B.A., Hamilton, 1969
McCuen, Brooks Walton DeWitt, N.Y.
B.A., Hamilton, 1969
McKay, Lauchlan Newton Center, Mass.
B.M.E., Union, 1966
M.S., Polytechnic Brooklyn, 1969
McLanahan, Charles Scott Farmington, Mich.
B.A., Yale, 1969
McLean, Edward Righter, Jr. Greenville, Del.
B.A., Princeton, 1969
Makrauer, Frederick Lang Boston, Mass.
B.A., Princeton, 1969
Mascitelli, Robert Joseph New York, N.Y.
B.A., Holy Cross, 1970
Mattison, Donald Roger Minneapolis, Minn.
B.A., Augsberg, 1966
Mears, John Gregory Buffalo, N.Y.
B.S., Trinity, 1969
Meehan, Thomas Charles Bergenfield, N.J.
B.S., Fairfield, 1969
Mezaraups, Gunar Gundis Cincinnati, Ohio
B.A., Columbia, 1969
Michelson, Eric Lee Philadelphia, Pa.
B.A. and M.S., Pennsylvania, 1969
Mook, Carolyn Ives Cooperstown, N.Y.
B.A., Smith, 1969
Myerberg, David Zell Baltimore, Md.
B.A., Princeton, 1969
Myers, Alexander Gordon Needham, Mass.
B.A., Harvard, 1965
Nissenblatt, Michael Jeffrey Peekskill, N.Y.
B.A., Washington & Jefferson, 1970
Okamoto, Emi New York, N.Y.
B.A., Mount Holyoke, 1969
O'Neill, Donald Andrew Shelter Island, N.Y.
B.A., Columbia, 1969

Pepkowitz, Samuel Herschel Lewiston, N.Y.
B.A., Johns Hopkins, 1969
Peteet, John Raymond Atlanta, Ga.
B.S., Wheaton, 1969
Pierson, Eric William Neligh, Nebr.
Pines, Jeffrey Martin Tenafly, N.J.
B.A., Columbia, 1969
Platt, Tan Jackson Easton, Md.
B.S., Trinity, 1969
Powlis, William Davenport New York, N.Y.
B.S., City College (New York), 1969
Rapisardi, Nancy Jeanne Colorado Springs, Colo.
B.A., Radcliffe, 1969
Rau, Dean William Willmar, Minn.
B.A., Harvard, 1968
Ress, Richard R. Teaneck, N.J.
B.A., Princeton, 1969
Richardson, Allen Barrister Honolulu, Hawaii
B.A., Yale, 1969
Riehle, Robert Arthur, Jr. Cincinnati, Ohio
B.A., Yale, 1969
Rosenfeld, Jonathan Eliot New York, N.Y.
B.A., Columbia, 1969
Rubin, George Henry New York, N.Y.
B.A., New York University, 1969
Ruskin, Frederic Leonard Scottsdale, Ariz.
B.A., Stanford, 1967
Santamaria, Jaime New York, N.Y.
B.S., Cooper Union, 1969
Saunders, Richard Ames New York, N.Y.
B.A., Dartmouth, 1969
Savage, Robert Thornton Louisville, Ky.
B.S., Yale, 1968
Schultz, Neal Bruce Briarwood, N.Y.
B.A., Pennsylvania, 1969
Schwartz, Richard Lawrence Plainview, N.Y.
B.A., Pennsylvania, 1969
Sherman, William Merritt Ogdensburg, N.Y.
B.S., Hamilton, 1969
Sherrid, Mark Victor New York, N.Y.
B.A., Cornell, 1969
Speert, David Paul Scarsdale, N.Y.
B.A., Middlebury, 1969
Spielman, Scott Ronald New York, N.Y.
B.A., Columbia, 1969
Stewart, James Richard McMurray, Pa.
B.A., Brown, 1969
Stockman, Mark Brian Marblehead, Mass.
B.A., Harvard, 1969
Straus, John Herbert New York, N.Y.
B.A., Harvard, 1968
Syracuse, Donald Charles Centerport, N.Y.
B.A., Dartmouth, 1969
Tabor, Edward Bethesda, Md.
B.A., Harvard, 1969
Taub, David Joel Plainfield, N.J.
B.A., Harvard, 1969
Thornton, Yvonne Shirley Long Branch, N.J.
B.S., Monmouth, 1969
Tornberg, David Norman Gales Ferry, Conn.
B.S., U.S. Naval Academy, 1964
Trelstad, Donald Axton Salem, Ore.
B.A., Columbia, 1969
Untereker, William Joseph Tenafly, N.J.
B.A., Williams, 1968
Verrilli, John Loftus White Plains, N.Y.
B.A., Pennsylvania, 1969
Von Hoff, Daniel Douglas DePere, Wis.
B.S., Carroll (Wisconsin), 1969
Webb, Michael Terry Pittsburgh, Pa.
B.A., Bowdoin, 1969
Weiss, Allen Stanley Philadelphia, Pa.
B.A., La Salle, 1969
West, Robert Bernard Chappaqua, N.Y.
B.A., Princeton, 1968
Whitsett, Jeffrey Allen Chesterland, Ohio
B.A., Colgate, 1969
Wild, Wayne Simeon New York, N.Y.
B.A., Columbia, 1968
Williams, Philip Copelain, Jr. Chicago, Ill.
B.S., Yale, 1969
Wrobleski, Daniel Edward Holyoke, Mass.
B.S., Trinity, 1969
Yackulic, Charles Fred Bellevue, Wash.
B.A., Columbia, 1969

Class of 1974

Allyn, Thomas Richard Springfield, Ill.
B.A., Northwestern, 1968
Antman, Elliott Marshall Flushing, N.Y.
B.A., Columbia, 1971
Arlinghaus, Frank Henry, Jr. Rumson, N.J.
B.A., Columbia, 1970
Bateman, Jane Bronwyn Long Beach, Calif.
B.A., California, 1970
Beaumont, Charles Barry Lakeville, Conn.
B.A., Yale, 1965
M.S.F.S., Georgetown, 1967
Benton, Edward Wayne Columbus, Ga.
B.S., Georgia Southwestern, 1970

Blair, Lester Winston Bronx, N.Y.
B.A., Columbia, 1970
Blake, Jeffrey Wayne Cleveland, Ohio
B.A., Columbia, 1970
Blomstedt, Jeffrey William Wilmington, Del.
B.A., Dartmouth, 1970
Bodnar, Andrew Gabriel Bronx, N.Y.
B.A., Harvard, 1970
Boyle, James Joseph Hicksville, N.Y.
B.A., Yale, 1970
Bull, Robert Homer Seminole, Fla.
B.A., Dartmouth, 1970
Burris, James Frederick Silver Spring, Md.
B.A., B.S., Brown, 1970
Burrows, Warren Booth Brookline, Mass.
B.A., Yale, 1967
Bush, Clinton Gilman, III Oyster Bay, N.Y.
B.A., Princeton, 1970
Bysshe, Stanley Mercer, Jr. New York, N.Y.
B.A., Virginia, 1970
Call, William Herbert South Burlington, Vt.
B.A., Yale, 1969
Chang, Stanley Bronx, N.Y.
B.S.E.E., Massachusetts Institute of Technology, 1968
M.S., Pennsylvania, 1970
Ching, Gerald Dock Sung Aiea, Hawaii
B.A., Hamilton, 1970
Christensen, Robert Dennis Layton, Utah
B.S., Utah, 1970
Clark, Shana Sinaid Winter Park, Fla.
B.A., Rollins, 1971
Clark, Tedana Wibberley Winter Park, Fla.
B.A., Rollins, 1971
Cody, Hiram Sedgwick, III Mountain Lakes, N.J.
B.A., Dartmouth, 1970
Collins, Anne Flagler Dutchess County, N.Y.
B.A., Mills, 1961
Cornwall, John Wallace Short Hills, N.J.
B.A., Williams, 1970
Crandall, Marilyn Elizabeth Maplewood, N.J.
B.A., Wellesley, 1970
Davis, Richard Clifton, Jr. San Angelo, Texas
B.A., Texas A&M, 1963
Ph.D., Texas A&M, 1968
Derkac, Wayne Michael Easton, Pa.
B.A., Dartmouth, 1970
Detwiller, John Patrick Rockville Centre, N.Y.
B.A., SUNY at Plattsburgh, 1969
Diamond, Norman George Waterloo, Iowa
B.A., Columbia, 1970
Evans, Lewis C., II Amityville, N.Y.
B.A., Cornell, 1963
LL.B., Cornell, 1965
Fischel, Robert Elliot Tenafly, N.J.
B.A., Brandeis, 1970
Fisher, Gregory Thomas New London, Conn.
B.A., Wesleyan, 1970
Fishman, Norman Bronx, N.Y.
B.A., Columbia, 1970
Forbes, Ronald Omega Hollis, N.Y.
B.A., Harvard, 1970
Ford, John Pegram Amherst, Mass.
B.A., Columbia, 1968
Foster, Leroy Paul, Jr. Chicago, Ill.
B.S., Loyola, 1970
Gale, Steven S. Hastings-on-Hudson, N.Y.
B.E., Vanderbilt, 1964
M.S., Columbia, 1970
Garay, Stuart Martin Searingtown, N.Y.
B.A., Columbia, 1970
Gladstone, Alan Richard Stamford, Conn.
B.S., Trinity, 1970
Goshorn, Robyn Kent Franklin, Ind.
B.A., Princeton, 1969
Grosh, William Wangerin Long Island City, N.Y.
B.A., New York University, 1970
Haberkern, Charles Martin Garden City, N.Y.
B.A., Yale, 1970
Habif, David Valentine, Jr. Plainsboro, N.J.
B.A., Princeton, 1970
Hadley, Terence James Rockville Centre, N.Y.
B.S., Fordham, 1970
Hagaman, John Frederick Wynnewood, Pa.
B.S., Trinity, 1970
Hamilton, Stuart Arnim Rockaway Park, N.Y.
B.S., Trinity, 1970
Hamm, Karen Sue Green Lane, Pa.
B.S., Muhlenberg, 1970
Higginbottom, Philip Arthur Easton, Md.
B.S.E., Princeton, 1969
Hirsch, Steven Robert Brooklyn, N.Y.
B.A., Yale, 1970
Hodess, Arthur Bart Bronx, N.Y.
B.A., Boston, 1970
Jackier, Carol Anne Wilkes-Barre, Pa.
B.A., Bryn Mawr, 1970
Jeffers, Lennox John New York, N.Y.
B.S., St. John's, 1967
Johnson, Reginald Van New York, N.Y.
B.A., Windham, 1968
Johnson, Robert Carl Pelham, N.Y.
B.A., Columbia, 1965

Johnson, Roland Eric Hackensack, N.J.
B.A., Columbia, 1970
Jones, Wesley Earl Holly Springs, Miss
B.S., Tougaloo, 1970
King, William Leopold Yonkers, N.Y.
B.S., Manhattan, 1970
Krinsky, Michael Mayer New London, Conn.
B.A., Syracuse, 1970
Kuna, Samuel Thomas Westfield, N.J.
B.S., Muhlenberg, 1970
Kushner, Rederick Gary Great Neck, N.Y.
B.A., Columbia, 1970
Lane, Lewis Behr Plandome Manor, N.Y.
B.A., Columbia, 1970
Leach, James Clifton, N.J.
B.A., Rochester, 1970
Lesser, Howard Arthur, Jr. New York, N.Y.
B.A., Princeton, 1970
Letcher, Robert Lee Joliet, Ill.
B.S., William & Mary, 1970
Levine, Peter Robin Far Rockaway, N.Y.
B.A., Yale, 1970
Li, Suzanne Elmhurst, N.Y.
B.A., Oakland, 1970
Lovelace, Jesse Bernard Leechburg, Pa.
B.S., Pennsylvania State, 1970
Lowe, Frederick William, III
Manchester, Conn.
B.S., Tufts, 1970
Lunsford, Lawrence Dade Petersburg, Va.
B.A., Virginia, 1970
McConnell, John Claude Durham, N.H.
B.A., Wesleyan, 1968
MacDonald, Alan Bruce Manchester, Conn.
B.S., Tufts, 1970
McGrath, Patrick Joseph, Jr.
West Orange, N.J.
B.S., Seton Hall, 1970
McNeil, Gloria Elaine Montreal, Canada
B.S., Howard, 1970
Marshall, Merville Cameron, Jr. Bronx, N.Y.
B.A., Columbia, 1970
Martin, Patricia Jewett New York, N.Y.
B.S., Columbia, 1969
Matkovic, Christopher S. Bronx, N.Y.
B.A., Rutgers, 1965
Ph.D., Harvard, 1970
Mattern, Richard Frank Clark, N.J.
B.A., Dartmouth, 1970
Miura, Dennis Seiji New York, N.Y.
B.S., Columbia, 1965
M.S., Columbia, 1967
Moldover, Jonathan Reuben Brooklyn, N.Y.
B.S., Trinity, 1970
Nall, James Griffin New Orleans, La.
B.A., Yale, 1970
Neuhut, Denis Scott Franklin Square, N.Y.
B.A., Columbia, 1970
Nicholson, John Mallory Wistar
Moorestown, N.J.
B.S., Ohio Wesleyan, 1970
Orient, Jane Michel Tucson, Ariz.
B.A., B.S., Arizona, 1967
Overstreet, James Wilkins
Savannah Beach, Ga.
B.A., University of the South, 1967
Passamonte, Paul Michael Avon, N.Y.
B.S., SUNY at Albany, 1970
Polkes, Eric William New York, N.Y.
B.A., Hobart, 1969
Pomerance, Glenn Noel Flushing, N.Y.
B.A., Bard, 1968
Prudden, Peter Allen Upper Nyack, N.Y.
B.A., Harvard, 1968
Quinn, James Andrew East Meadow, N.Y.
B.A., Hofstra, 1970
Rand, James Alan Huntington, N.Y.
B.A., Denver, 1970
Rapoport, Frederick Alan Scarsdale, N.Y.
B.A., Columbia, 1970
Rasmussen, Carl Arthur Maywood, N.J.
B.A., B.S.M.E., Lafayette, 1965
M.S., Columbia, 1970
Ray, Audell Woods Pluckemin, N.J.
B.A., Vassar, 1970
Reichelderfer, Mark Winnetka, Ill.
B.A., Amherst, 1970
Rerych, Stephen Karl New Rochelle, N.Y.
B.S., North Carolina State, 1969
Richardson, Harrison Holt Beaver, Pa.
B.A., Wilmington, 1969
M.S., Cornell, 1970
Rosnick, Lyle Eugene Powhatan Point, Ohio
B.A., Columbia, 1970
Sabety, Eric Farid Montclair, N.J.
B.A., Franklin and Marshall, 1970
Savage, David Glass Chagrin Falls, Ohio
B.A., Wesleyan, 1970
Scharff, Nicholas St. Louis, Mo.
B.A., Yale, 1966
Scholes, John Vackiner Wilmington, Del.
B.S., Trinity, 1970
Schroeder, Karl John Suffern, N.Y.
B.A., Notre Dame, 1970
Schubach, William Harley Columbus, Ohio
B.A., Stanford, 1966
Schwartz, Allan Bronx, N.Y.
B.S., City College of New York, 1967
M.A., Harvard, 1968
Schwarz, Steven Michael Tuckahoe, N.Y.
B.A., Yale, 1970
Seals, Jerry Ellis Buffalo, N.Y.
B.S., SUNY at Buffalo, 1969
Seigle, Robert Lee Westfield, N.J.
B.A., Northwestern, 1970

Siegal, Michael Selig Bayside, N.Y.
B.A., Harvard, 1970
Smith, Rederick Keir San Diego, Calif.
B.A., Princeton, 1970
Squire, Gail Wilder Brooklyn, N.Y.
B.A., Barnard, 1968
Stahl, Jeffrey Drew Maumee, Ohio
B.A., Princeton, 1970
Stearns, Gretchen New York, N.Y.
B.A., New York University, 1967
Stern, Roy Howard New York, N.Y.
B.A., Columbia, 1970
Stewart, Andrew Fyfe Bronxville, N.Y.
B.S., Trinity, 1970
Sturgis, Joan New York, N.Y.
B.A., Barnard, 1965
Tedeschi, Adele Catherine Long Island City, N.Y.
B.A., Vassar, 1970
Terry, William Ferrell Brentwood, Tenn.
B.A., Vanderbilt, 1970
Thomashow, Byron Martin Brooklyn, N.Y.
B.A., Columbia, 1970
Trippel, Stephen Bowman Evanston, Ill.
B.A., Swarthmore, 1970
Turco, John Harvey Melrose, Mass.
B.A., Harvard, 1970
Turi, Zoltan Gabriel Livingston, N.J.
B.A., Harvard, 1970
Vande-Stouwe, Robert Allen Queens Village, N.Y.
B.A., Manhattan, 1970
Van Valkenburg, Charles Mac Princeton, N.J.
B.S., Illinois, 1970
Wagner, Charles Gilbert New Milford, N.J.
B.S., Fairleigh Dickinson, 1971
Weber, James Karl New York, N.Y.
B.A., Yale, 1970
Weingarten, Michael S. Exton, Pa.
B.A., SUNY at Binghamton, 1970
Westerfield, Samuel Zaza, III Washington, D.C.
B.S., Howard, 1970
White, David Charles Dallas, Texas
B.A., Columbia, 1970
White, Eric Alan Casper, Wy.
B.A., Yale, 1970
Wilkins, Dennis Edward Washington, Mich.
B.S., Wayne State, 1970
Wintch, Richard Wallace Manti, Utah
B.A., Utah, 1970
Winternitz, Charles Austin Mendham, N.J.
B.A., Johns Hopkins, 1970
Yee, Ngai Ming Honolulu, Hawaii
B.A., Northwestern, 1970

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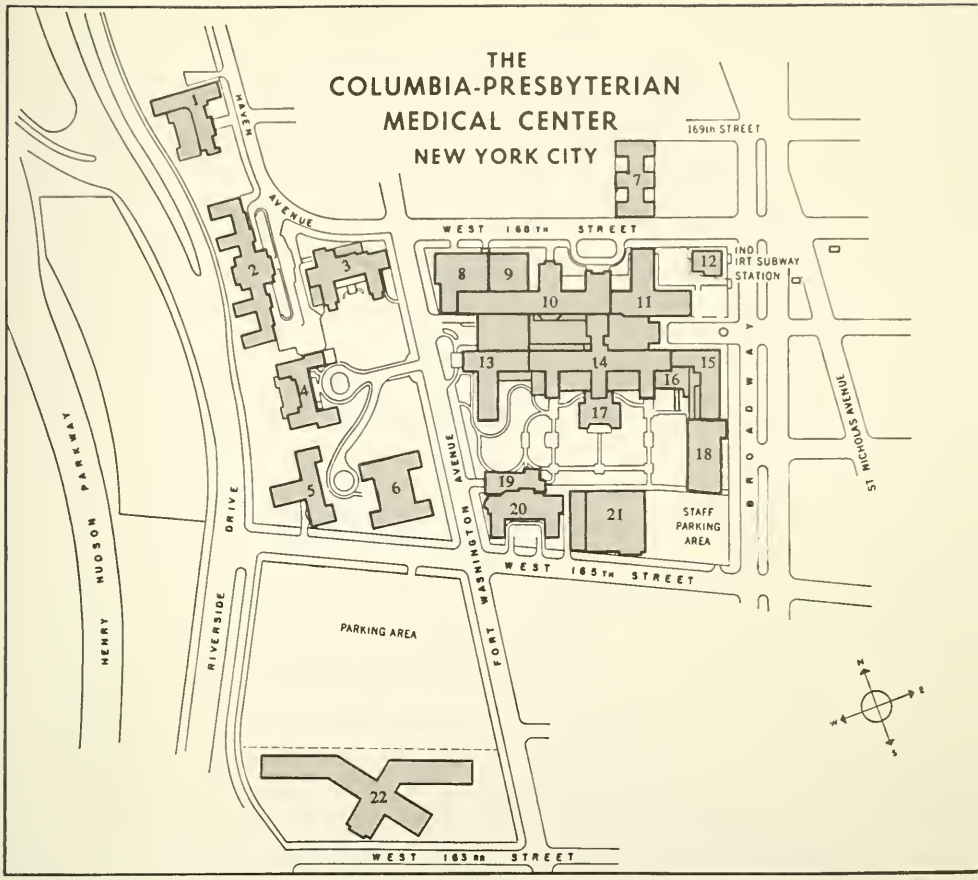

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Columbia University Bulletin

THE FACULTY OF MEDICINE

College of Physicians & Surgeons

1971–1972

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The Faculty of Medicine of Columbia University

College of Physicians & Surgeons

1971-1972

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May	20–21	Thursday–Friday. Registration, including payment of fees, for third- and fourth-year classes.
June	1	**Tuesday. Academic year begins for the third- and fourth-year classes.**
Aug	2	Monday. Last day to apply or reapply for all degrees and certificates to be conferred in October. Students who apply after this date must pay a late fee.
Sept	9–11	Thursday–Saturday. Registration, including payment of fees, for first- and second-year classes.
	13	**Monday. Classes begin for first- and second-year classes.**
Oct	1	Friday. Last day to file dissertations for the Med.Sc.D. degree to be awarded in October.
Nov	2	Tuesday. Election Day. Holiday.
	25–27	**Thursday–Saturday. Thanksgiving holidays.**
Dec	1	Wednesday. Last day to apply or reapply for all degrees and certificates to be awarded in February. Students who apply after this date must pay a late fee.
	18	**Saturday, through January 2, 1972, Sunday. Christmas holidays.**
Feb	19–27	**Saturday–Sunday. Intersession between first and second semesters.**
	21	Monday. Washington's Birthday. Holiday.
Mar	1	Wednesday. Last day to apply or reapply for all degrees and certificates to be conferred in June. Students who apply after this date must pay a late fee.
	25	**Saturday, through April 2, Sunday. Easter holidays.**
May	1	Monday. Last day to file dissertations for the Med.Sc.D. degree to be conferred in June.
	29	Monday. Memorial Day. Holiday.
June	6	**Tuesday. Conferring of degrees.**

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Columbia-Presbyterian Medical Center

The College of Physicians and Surgeons and Affiliated Hospitals

The College of Physicians and Surgeons is guided by the principle that medical education is university education. The acquisition of knowledge and skills is important in professional education, but far more vital is a profound understanding of the science, the art, and the ethic within which both knowledge and skill are applied. As a part of Columbia University, the College builds its curriculum, selects its officers of instruction, and marshals its enormous resources of equipment and clinical experience to develop in the student this understanding of medicine. Within the curriculum for the M.D. degree is the fundamental knowledge upon which later specialization is built, and from which the natural bent is discovered toward general or special practice, or toward research, teaching, or administration. The postgraduate programs of the College provide training in the specialties, help the graduate physician to keep abreast of new knowledge, and support the research from which this knowledge develops.

HISTORY OF THE COLLEGE AND THE UNIVERSITY

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The American Revolution interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine in course. The first graduates in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May 1769 and that of Doctor of Medicine in May 1770 and May 1771, respectively. Instruction in medicine was given until interrupted by the Revolution and the occupation of New York by the British, which lasted until November 25, 1783. In 1784 instruction was resumed in the academic department, and in December of the same year the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; from that time on the diplomas of the graduates were signed by the President of Columbia College as well as by the President of the College of Physicians and Surgeons. The connection was only a

nominal one, however, until 1891, when the college was incorporated as an integral part of the University. Since September 1917 women have been admitted to the College on the same basis as men.

The Columbia-Presbyterian Medical Center was opened in the spring of 1928, seven years after the establishment of a permanent affiliation between Columbia University and the Presbyterian Hospital. It consists of the following units: the divisions of the University Faculty of Medicine (the College of Physicians and Surgeons, the Department of Nursing, the School of Public Health and Administrative Medicine); the University School of Dental and Oral Surgery; the Presbyterian Hospital and its subdivisions; the New York State Psychiatric Institute; Francis Delafield Hospital; and the Washington Heights Health and Teaching Center.

The Medical Center occupies a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. It comprises about twenty acres extending from West 165th Street to West 168th Street and from Broadway to Riverside Drive, and is readily accessible from all parts of the city. A map of the Medical Center is given on the inside back cover.

The College of Physicians and Surgeons is at 630 West 168th Street between Broadway and Fort Washington Avenue in a seventeen-story, fire-resisting, steel, brick, and concrete building, each floor of which connects with the wards and services of the Presbyterian Hospital. The William Black Memorial Research Building is a twenty-story building containing research laboratories for the faculty members of the College of Physicians and Surgeons. It is connected with the College building and is located at 168th Street and Fort Washington Avenue.

MEDICAL LIBRARY

The Medical Library occupies parts of the three lower floors of the College building. It provides current literature (both books and journals) for faculty members and students, and it aids in research through its own collections of current and historical works, through interlibrary loans, and through its unique bibliographic service.

The library contains approximately 310,000 volumes of books and journals, some 5,000 pamphlets, and about 2,000 lantern slides on the history of medicine. More than 4,500 periodicals are received regularly. A professional library staff is available to aid students, faculty members, and research workers in the schools and hospitals of the Medical Center.

The libraries on the Morningside campus, which contain over 4,000,000 volumes, are open to all students. They include collections on biology, chemistry, physics, psychology, sociology, and other subjects related to medicine and supplement the special collections available in the Medical Library. Books and journals may be borrowed for home use. The main collection is housed in Butler Library, while special and departmental collections are located in various other buildings on the campus.

The Medical Library is open Monday through Friday, from 8:30 a.m. to 11 p.m.; Saturday, from 9 a.m. to 5 p.m.; and Sunday, from 12 noon to 10 p.m. during the academic year. All other libraries post their hours.

INSTITUTE OF CANCER RESEARCH

The Institute of Cancer Research of the Columbia University College of Physicians and Surgeons was established in 1909 with funds bequeathed to the University by George Crocker. It moved from its original quarters on 116th Street to the College of Physicians and Surgeons in 1938. The Francis Delafield Hospital later became the center of clinical and experimental cancer research at P&S. In 1967 a five-story research wing was added to the Delafield Hospital enabling the consolidation of all the laboratories of the Institute in one building. These laboratories now provide the means for extensive investigations of many aspects of cancer and for the postgraduate training of scientists in this field.

INTERNATIONAL INSTITUTE FOR THE STUDY OF HUMAN REPRODUCTION

The International Institute for the Study of Human Reproduction was founded in 1965 with a grant from the Ford Foundation, later supplemented by one from the Rockefeller Foundation. Its primary purpose is to do research in the fields of biology, clinical investigation, and the social sciences relevant to the solution of the world population problem. A parallel objective is to study the many complications of the reproductive process affecting human welfare, such as infertility, endocrine disorders, out-of-wedlock pregnancy, marital and other social problems. Several divisions of the Institute are now operating: (1) reproductive endocrinology, (2) reproductive biochemistry, (3) germ-cell physiology and development, (4) reproductive morphology, (5) family life services, (6) biomathematics and demography, and (7) program development and evaluation.

The office of the Director of the International Institute for the Study of Human Reproduction is on the twentieth floor of the William Black Medical Research Building.

BARD HALL

Bard Hall, at 50 Haven Avenue overlooking Riverside Park and the Hudson River, is the residence for men and women students of the College. Its facilities include lounges, a cafeteria and several dining rooms, and a gymnasium with facilities for swimming, basketball, squash, and other sports.

► AFFILIATED HOSPITALS

THE PRESBYTERIAN HOSPITAL

Founded in 1868, the hospital now occupies a twenty-two-story building in which are the wards of the medical and surgical services, the Sloane Hospital for Women, and the Squier Urological Clinic. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the Hospital on nomination by the Trustees of the University. There are 1,523 beds.

Presbyterian Hospital has the following subdivisions:

Babies Hospital, founded in 1887, provides for general medical and surgical care of infants and children up to their thirteenth birthday, and care for premature babies. The total capacity of the hospital is 195. An outpatient department is maintained in Vanderbilt Clinic by the attending and house staff of the hospital.

The Edward S. Harkness Eye Institute, opened in 1933, has complete facilities for the medical and surgical treatment of adults and children with diseases of the eye, and has a total capacity of 100. On January 1, 1940, the work of the Herman Knapp Memorial Eye Hospital was taken over by the Institute.

Harkness Pavilion was erected when the Medical Center was established in 1928, and is available for the accommodation of 303 adult private patients.

Neurological Institute, one of the first nongovernmental hospitals in this country for the treatment of nervous diseases, was founded in 1909. It moved from East 67th Street to the Medical Center in 1929. The Institute has a capacity of 250 beds, including 15 added in 1960 for psychiatric patients.

The New York Orthopaedic Dispensary and Hospital opened as a dispensary in 1866 largely because of the interest taken in the care of the crippled by Theodore Roosevelt, father of the President of the same name. The Orthopaedic Dispensary and Hospital was located in its own buildings at 420 East 59th Street until December, 1950, when it was moved to the fifth floor of the Presbyterian Hospital.

Sloane Hospital for Women was built at West 59th Street and Amsterdam Avenue and presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now occupies three floors of the Presbyterian Hospital building and one floor in Harkness Pavilion. There are 183 beds, of which 118 are ward beds.

Squier Urological Clinic occupies the tenth floor of the Presbyterian Hospital building and the tenth floor of Babies Hospital. There are 67 beds for the care of adults and 20 beds for babies and children.

Vanderbilt Clinic was presented to Columbia University by the Vanderbilt family in 1888 and is the common outpatient department and admitting service for all the wards of all the units of the Presbyterian Hospital.

HARLEM HOSPITAL

Harlem Hospital, founded in 1887, is a general hospital of 1,000 beds, serving Central Harlem and environs, responsible for the care of approximately 500,000 people. The College of Physicians and Surgeons, through a contractual arrangement with the New York City Health and Hospitals Corporation, is responsible for all professional services in this hospital and nominates its entire professional staff.

This affiliation presents a unique opportunity for teaching students, interns, and

residents in the traditional disciplines of medicine, and provides increasing opportunities for involvement in community medicine.

ST. LUKE'S HOSPITAL

St. Luke's Hospital Center was established in 1850 and has been located on Morningside Heights, adjacent to the main Columbia campus, since 1896. St. Luke's Hospital and Woman's Hospital are the component parts of the Hospital Center which contains 749 beds, including 45 pediatrics beds. There are four major and eleven specialty services. St. Luke's Hospital has maintained a teaching affiliation with the University since 1947 and in 1971 became a full University hospital. St. Luke's emergency room handles nearly 100,000 visits a year and the various clinics almost 200,000 visits annually. Extensive research laboratory facilities are included in a new Service and Research Building. A medical library is an integral part of the hospital. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the Hospital on nomination by the Trustees of the University.

THE ROOSEVELT HOSPITAL

The Roosevelt Hospital was founded in 1864. It comprises 591 beds and 58 bassinets. There are about 16,000 admissions and nearly 200,000 clinic visits annually. The hospital is engaged in many research and teaching activities. A new research building containing 52,000 square feet of laboratory space for all departments is scheduled for completion by March, 1972. The medical library contains 16,000 volumes and subscribes to 520 medical and technical journals. The hospital has been affiliated with the College of Physicians and Surgeons since the early years of the century, and in 1971 became a full University hospital. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the Hospital on nominations by the Trustees of the University. The hospital is also actively engaged in community programs through its Departments of Pediatrics, Psychiatry, and Ambulatory Care.

FRANCIS DELAFIELD HOSPITAL

The Francis Delafield Hospital, built and maintained by the City of New York, is a 261-bed limited general hospital emphasizing the treatment and study of cancer. A program of research and of graduate and undergraduate instruction in the malignant diseases is conducted here under the terms of an agreement with the City of New York whereby Columbia University nominates the entire professional staff. The hospital is equipped with three floors of research laboratories, a modern outpatient department, and modern facilities for all methods of study and treatment of cancer.

NEW YORK STATE PSYCHIATRIC INSTITUTE

A 174-bed hospital built and maintained by the State of New York, the Institute provides for the study and treatment of all types of psychiatric disorders. There

are special facilities for the treatment of children presenting behavior and personality problems. Connected with the hospital is an active outpatient department providing diagnostic and treatment facilities.

MARY IMOGENE BASSETT HOSPITAL

The Mary Imogene Bassett Hospital in Cooperstown, New York, is affiliated with the University for the teaching of medicine and surgery. It has 96 beds.

Admission, Registration and Expenses

Entering classes are enrolled in the College once each year in September. The minimum requirement for admission is attendance for three full academic years at an approved college of arts and sciences. Most applicants present four academic years and a bachelor's degree, although these are not required. The composition of our entering classes indicates, however, that only a relatively small number of three-year students have been accepted in the past by our Committee on Admissions. All qualified men and women receive consideration for admission without regard to race, creed, color, or national origin.

The college program must have included English, physics, biology, general chemistry, and organic chemistry (including laboratory), covering at least one academic year each. These requirements have been designated as mandatory not only by our faculty but by various state medical licensure boards as well; accordingly applicants cannot be excused from them. Additional background in advanced mathematics and chemistry, and in embryology, may be useful but is not required. The student may have concentrated on any subject—in the natural sciences, social sciences, humanities, or arts—but evidence of a balanced education, as well as demonstrated interest and ability in the natural sciences, is preferred.

APPLICATION PROCEDURE

Application for admission must be filed on a special form which may be obtained from the Admissions Office of the Faculty of Medicine. Applications are accepted only for the next incoming class; requests for application forms may be submitted one year in advance of registration. The completed form must be accompanied by the application fee of $20. The fee helps to cover the cost of processing the application; it is therefore not returnable and is not credited toward tuition.

Applicants will be notified when their applications have been received. The Committee on Admissions, however, evaluates only completed applications, that is, those for whom all transcripts and letters of recommendation have been received, along with MCAT scores if this test has been taken. Applicants will be notified also when their applications have been completed; if such notification is not received within sixty days after the date of original receipt of an application, applicants should make inquiries at the Admissions Office to learn which items have not yet been received. Failure to receive letters of recommendation is the commonest cause of delays in the completion of applications.

If a personal interview is required in connection with the application, it will be requested by the Dean's Office.

SELECTION OF STUDENTS

The Committee on Admissions devotes months to the task of selecting a class of one hundred and thirty-seven from a very large number of applicants. Obviously there will be many well-qualified students whom the College will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation as well, and welcomes qualified candidates from widely distributed geographical areas, provided they meet the standards of admission.

The Committee places great importance on the fact that the student has learned to think for himself, to explore, to work hard under his own initiative, to face alternatives and make decisions, and has developed a desire for a continuous program of self-education. Preference is given in the selection of students to those who have shown, in the opinion of the Committee on Admissions, high achievement in their college education, a mature sense of values and sound motivation, qualities of leadership, willingness and ability to assume responsibility, and who, therefore, have already given evidence that they are likely to become ethical, compassionate, and competent physicians.

The practice of medicine is both a science and an art, and to treat the patient as a whole man, the doctor must be a whole man himself. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education of which science is a part.

ACCEPTANCE FEE

A student who has been notified that his application has been accepted should reply within three weeks stating whether or not he intends to register. If accepted before February 15, he may send with his letter of acceptance a check or money order for $50, payable to Columbia University but which is refundable on request until March 1. If accepted after February 15, he must notify the Dean and send his $50 acceptance fee within two weeks after he has received his letter of acceptance, the fee being retained by the University. If the applicant registers at the College in the class to which he has been admitted, the amount of the acceptance fee will be credited to his tuition.

ADMISSION TO ADVANCED STANDING

Only a limited number of vacancies occur during the medical course, and students can be accepted on transfer from other schools only when such vacancies do occur. Any student desiring to transfer from an accrediated school of medicine in the United States or Canada to the upper classes of the College should communicate with the Dean to learn if vacancies exist.

ADMISSION OF FOREIGN STUDENTS

Applicants need not be citizens of this country but preferably should have received their premedical education at an accredited college or university in the United States or Canada. Applications may be submitted by individuals who have been educated elsewhere but, in the past, the Committee on Admissions has had great difficulty in finding a satisfactory means of evaluating the caliber of education available in the many colleges and universities throughout the world. Likewise, the Committee will accept applications for admission to this school with advanced standing from individuals who have begun their medical education in schools outside the United States and Canada, but again it has been frequently unable to evaluate the credentials of such applicants. As a result, the Committee has been able to admit relatively few individuals either to an entering class or with advanced standing, whose previous education has not been obtained in this country or Canada.

► REGISTRATION

Before attending classes, each student must register in person during the registration period (see the Academic Calendar). He goes to the Office of the Registrar, files a registration blank giving such information as may be required, and pays his fees. The office, on the third floor of the College building, is normally open from 9 a.m. to 5 p.m. daily except Saturdays and holidays.

All students will be asked to give social security numbers when registering in the University. Those who do not now have a number should obtain one from their local social security office well in advance of registration.

► REGULATIONS

Each person whose registration has been completed will be considered a student of the University during the term for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

The privileges of the University are not available to any student until he has completed his registration. Since, under the University statutes, payment of fees is part of registration, no student's registration is complete until his fees have been paid. No student is permitted to attend any University course for which he is not officially registered unless he has been granted auditing privileges. No student may register after the stated period unless he obtains the written consent of the proper dean or director.

Students are held accountable for absences incurred owing to late enrollment.

Any student whose religious duties conflict at any time with academic requirements should apply to his dean or director for an equitable solution.

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University.

Conduct and behavioral rules are guided by a student committee.

Academic and intellectual integrity are accepted principles in the medical profession. An Honor Code, created and administered by the student body, is the formal acknowledgement of this understanding at the College. Each student is expected to abide by it.

► AUDITING COURSES

Degree candidates in good standing who are enrolled for a full-time program in the current term may audit one or two courses in any division of the University without charge by filing a formal application in the Registrar's Office (P&S, Room 3–412) during the change-of-program period. Applications require (*a*) the certification of the Registrar that the student is eligible to audit and (*b*) the approval of the dean of the school in which the courses are offered.

Elementary language courses, laboratory courses, and seminars are not open to auditors; other courses may be closed because of space limitations. In no case will an audited course appear on a student's record, nor is it possible to turn an audited course into a credit course by paying the fee after the fact.

► FEES

The following fees, prescribed by statute for medical students, are subject to change at any time at the discretion of the Trustees:

TUITION

For the full course in medicine for one academic year (or equivalent), payable in two installments	$2,800.00

RESEARCH IN RESIDENCE

During the academic year, for any period or part of a period not longer than an autumn term, spring term, or summer	$75.00

STUDENT HEALTH AND HOSPITAL FEE

For all students, per academic year (see page 22)	$98.08

APPLICATION FEES AND LATE FEES

For admission	$20.00
For each special examination	10.00
For renewal of application for a degree	1.00
For late registration	10.00
For late application, or late renewal of application, for a degree	10.00

PAYMENT OF FEES

Tuition is payable each term in advance and as part of registration. If this fee is paid after the last day of registration a late fee of $10 will be imposed. Checks for tuition and fees should be drawn to the order of Columbia University.

WITHDRAWAL AND ADJUSTMENT OF FEES

A student in good academic standing who is not subject to discipline will always be given an honorable discharge if he wishes to withdraw from the University. If he is under twenty-one years of age, his parent or guardian must first give consent in writing to the Dean. The Dean may, for a valid reason, grant a leave of absence to a student in good standing.

Any adjustment of the tuition that the student has paid is reckoned from the date on which the Registrar receives the student's written notification. The student health and hospital fee, application fees, late fees, and special fees are not subject to rebate.

Up to and including the second Saturday after the first day of classes, tuition will be retained in the following amount:

Full-time study	$50.00
Part-time study	25.00

After the second Saturday after the first day of classes in the term, the above amount is retained, plus an additional percentage of the remaining tuition (as indicated in the schedule below), for each week, or part of a week, of the term up to the date on which the student's written notice of withdrawal is received by the Registrar.

ADJUSTMENT SCHEDULE

	Minimum Fees Retained	*Percentage of Remaining Tuition Retained*
Second Saturday after first day of classes	$25 or $50	0
Week following second Saturday after first day of classes	25 or 50	10
Second following week	25 or 50	20
Third following week	25 or 50	30
Fourth following week	25 or 50	45

	Minimum Fees Retained	*Percentage of Remaining Tuition Retained*
Fifth following week	25 or 50	60
Sixth following week	25 or 50	75
Seventh following week	25 or 50	90
Eighth following week	25 or 50	100 (no adjustment)

STUDENT HEALTH SERVICE

Daily office hours for sick students are held by the Student Health Service in Room 2005B, Black Building. Members of the Health Service are available to attend sick students who live near the Medical Center. Students who require hospitalization are taken care of either in the wards of the Medical Center or elsewhere under a hospitalization insurance policy.

The student health and hospital fee is used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance (unless a student already has hospital insurance) and to pay part of the cost of the student health service. Charges for the hospital insurance premium are subject to revision if rates are changed.

APPLICATION, OR RENEWAL OF APPLICATION, FOR A DEGREE

A candidate for the M.D. or Med.Sc.D. degree must file application for the degree by March 1 of the year in which he expects the degree to be awarded. Announcement of the date and procedure is posted on the bulletin boards each spring. If the degree is not earned as expected, the application may be renewed the following year for a fee of $1. The M.D. and Med.Sc.D. degrees are awarded in June; the Ph.D. degree is awarded whenever the candidate completes the requirements.

► ESTIMATED EXPENSES

The approximate current cost of attending the College for an academic year is as follows:

	Average
Tuition and fees	$2,900
Room in Bard Hall	635
Board	1,000
Books and instruments (except microscope)	300
Laundry and dry cleaning	300

In addition, each student should budget an average of $600 (minimum $400) for such items as clothing, travel, amusements, and sundries.

MICROSCOPE, INSTRUMENTS, AND BOOKS

Each entering student is required to provide himself with a microscope of standard make fitted with the following attachments:

Binocular body with 10x wide field high-eyepoint eyepieces with pointer; quadruple nosepiece fitted with 4 achromatic objectives of approximately 4x, 10x, 45x, and 100x oil immersion; ungraduated mechanical stage; Abbe condenser with rack and pinion focusing mount; low voltage substage illuminator with transformer attached to the microscope (110 volt attached illuminator also acceptable); all in carrying case.

Minimum microscope requirements are: monocular microscope with 10x eyepiece; triple nosepiece; 10x, 45x, and 100x oil-immersion objectives; mechanical stage ungraduated; Abbe condenser; attached substage 110 volt lamp; carrying case.

The cost of a suitable reconditioned microscope varies from $300 to $600 depending on the age, make, and model. The standard prices of new microscopes range from $750 to $1,000. A limited number of monocular microscopes are available for rental at approximately $30 a month.

Students are required to secure the usual instruments needed for the various diagnostic examinations of patients.

The books required or recommended for courses of instruction are announced at the beginning of the year.

► FINANCIAL AID

Financial aid programs are administered without regard to race, creed, color, national origin, or sex.

A *fellowship* is an award for academic excellence accompanied by a stipend to be used by the fellow in the furtherance of his studies or research. Fellows are not required to render any service to the University or the donor; rather, they are to devote their entire time to their own work. There is no restriction on a fellow's publication of his studies or research as a condition of the grant. A fellow may not engage in any remunerative employment while holding a fellowship unless the Dean gives his written consent.

A *scholarship* is an award, based primarily on financial need, of a stipend to be used by the student in the furtherance of his studies or research. The same rules of tenure apply as those governing fellowships except that students may engage in remunerative employment without the consent of the Dean. Scholarship stipends are usually smaller than fellowship stipends.

Loan funds are provided by Columbia University and by the Health Professions Student Loan Program, through the University, for the assistance of students after enrollment. Application forms for student loans administered by the University are included in the financial aid application. Students who are legal residents of New York State are eligible for loans and for New York State Scholar Incentive Awards through the New York State Higher Education Assistance Corporation. Application forms and instructions are issued by the Dean's Office.

Limited funds are available periodically for loans to medical students in emergencies. These funds, administered by the Dean, come from gifts by classmates and friends in memory of John Adams Mahew, Class of 1955, and from other sources.

Fellowships and scholarships are usually awarded for one academic year at a time. They may be canceled at any time for failure to maintain a satisfactory

academic standard or to comply with the terms of the award. Fellows and students, except those holding traveling fellowships, are expected to reside in New York City or its vicinity during the academic year, unless written permission is granted by the Dean to study elsewhere.

Dates of application and further information may be obtained from the Office of the Dean.

For information about available positions for student employment, please consult the Dean's Office. Because of the heavy schedule of the College, it is difficult for medical students to undertake part-time work outside the Medical Center during the academic year and, so far as feasible, other financial arrangements should be made.

The wives of medical students will find many opportunities for employment at the Medical Center; those who are interested should consult the personnel offices of the College and the Hospital.

FELLOWSHIPS

Area Institute. Varying in number; from $2,500 to $3,500 each. Open to graduates of, or second-year students in, the professional schools of the University; for work toward certificates in the regional institutes. An applicant is required to give the major portion of his time to the area program; he should discuss his program with the appropriate institute director before applying.

Bache, Jules S. Open to one or more graduate or undergraduate physicians who, in the judgment of the Professor of Obstetrics and Gynecology, are fitted to do special work in obstetrics and gynecology. Given by Mrs. Muriel Richards Pershing and Mrs. Dorothy Richards Hirshon, in memory of their grandfather, Dr. Jules S. Bache.

Barnes-Foster. Open to women graduate students for work in gynecology.

Beekman, Gerard. Awarded annually for advanced work in medicine. Given by the Beekman Family Association.

Du Bois, Abram. Awarded annually. Open to a graduate of the College; for specialization in diseases of the eye or for studies in surgical pathology. The holder devotes his time to clinical and laboratory study, at home or abroad. Given by the two sons and the daughter of Dr. Abram Du Bois, Class of 1835.

Ellis, George W. Awarded annually. Open to graduates of recognized Vermont colleges. Reappointment: for a student in medicine, not more than three additional years.

Felsen, Morris. Awarded for investigative work in the field of infectious diarrhea. Bequest of Joseph Felsen.

Gay, Frederick Parker, Memorial. Awarded annually. For graduate work in bacteriology; awarded on the nomination of the chairman of the Department of Microbiology.

Gies, William J. Awarded annually. For graduate study in biochemistry; awarded on nomination of the chairman of the Department of Biochemistry.

Haviland, Theodore. Awarded to physician for reseach projects or studies in the nature and cause of infectious diseases affecting infants and children.

Herrick, William Worthington. Given in honor of William Worthington Herrick, M.D. Awarded in medicine, preferably to those interested in the medical problems of pregnancy.

Holt, L. Emmett. Awarded annually. Open to a student of the graduating class of any medical school or to a graduate of not more than six years standing; for the study of diseases of children, in this country or abroad. Reappointment: for not more than one additional year.

James, Walter Belknap, Research. Awarded annually. Open to a graduate in medicine; for advanced study in medicine either at the University or elsewhere.

Knapp Memorial. Awarded for research in ophthalmology on nomination by the Knapp Foundation Committee.

Koplik Children's Scholarship. Awarded every other year. Open to a physician under thirty years of age who has shown special aptitude for original work in the investigation of the diseases of children.

Lambert, Samuel W. and Elizabeth W., Traveling (1948). For specialization in surgery. Given in memory of Samuel W. and Elizabeth W. Lambert.

Meierhof, Edward. Awarded to a number of properly accredited graduates in medicine to receive instruction in applied anatomy and surgical technique and other surgical training.

Proudfit, Maria McLean. Awarded every four years. Open to a son of native-born American parents; for advanced studies in internal medicine. The holder must remain unmarried for the duration of the fellowship. Given by Alexander Moncrief Proudfit, B.A., (18)'92. Next award: 1973–1974.

Romaine, DeWitt C. For medical research in the College. Given by the estate or C. Everetta Romaine.

Ryle, Dorothy, Research (1950). For research in neurology. Given by Mrs. Thorneycroft Ryle.

Tilney, Frederick, Memorial Fund. For such research projects in neurology as may be recommended from time to time by the chairman of the Department of Neurology, the Dean of the Faculty of Medicine, and the President of the Board of Trustees of the Presbyterian Hospital. Given by the Frederick Tilney Memorial Fund, Inc.

Tucker, Ervin Alden. Awarded to a graduate of the College to do graduate work in obstetrics. Given by Mrs. Ervin Alden Tucker.

Webster, Edward C. Awarded for research in endocrinology or an allied field.

SCHOLARSHIPS

Allen. Awarded annually to men who are unable to pay their own way for medical training. Gift of Mrs. Vivian B. Allen.

Alumni. A limited number of national scholarships. Provided by gifts from the P&S Alumni Association and other contributors.

Anonymous. Several; awarded annually. From an anonymous donor.

Banbury (1955). Open to students enrolled in the College. From the Banbury Scholarship Fund.

Bernheim, Isaac J. and Rena Henly. To be awarded annually. Given by the family in honor of Isaac J. and Rena Henly Bernheim.

Birtwhistle, Elsie J. (1965). Founded by the will of Morell Birtwhistle in memory of his wife; to assist one or more worthy students.

Blumenthal, George, Jr. Several. From the George Blumenthal, Jr., Fund.

Britenstool, Dr. Harry, Memorial (1964). From the estate of Mrs. Blanche B. Ostheimer in memory of her brother.

Brownstone, Lucien and Ethel, Merit Medical Scholarship Fund (1965). A merit scholarship to be awarded every four years. First award: 1965–1966. "Established for the benefit of humanity and for the encouragement of this nation's outstanding and gifted individuals to plan careers in medicine."

Buchman, Dr. Moses R., Memorial (1957). Open to undergraduate medical students, with preference given to those who are residents of Westchester and who plan to practice pediatrics. Established by friends of Dr. Buchman.

Bull, David C., Memorial (1959). In memory of Dr. David C. Bull, a former member of the Department of Surgery.

Butler, Richard. Open to men born in the state of Ohio who are qualified for admission to, and plan to enter, Columbia College, one of the Graduate Faculties, the Schools of Law or Engineering & Applied Science, or the College of Physicians and Surgeons. Reappointment: not more than two additional years.

Clark, Alonzo. Awarded annually. Founded by the will of Alonzo Clark, M.D., LL.D., for many years President of the College of Physicians and Surgeons.

Class of 1890. Awarded annually. Given by a member of the class.

Class of 1899. Awarded annually. Given by the class in commemoration of the thirty-fifth anniversary of its graduation.

Class of 1912. Awarded annually. Given by the class on the fifteenth anniversary of its graduation.

Class of 1913. Awarded for medical student scholarships.

Class of 1920. Awarded annually. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1928. Given at their tenth reunion.

Class of 1932. Awarded annually. For a scholarship room. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1933. For a scholarship.

Class of 1934. Awarded for medical student scholarships.

Class of 1936. Awarded annually. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1937. Awarded for tuition of medical students.

Class of 1938. Awarded annually to assist a Physicians and Surgeons student.

Class of 1939. Awarded for medical student scholarships.

Class of 1940. Awarded for medical student scholarships.

Class of 1942. Awarded for medical student scholarships.

Class of 1952. Given by members of the class on the tenth anniversary of its graduation.

Class of 1953. Awarded annually. Given by members of the class.

DeAngelis, Anthony M. (1958). Open to a student of the fourth-year class. Given by Dr. Anthony M. DeAngelis.

Dennett, Horace. Several; awarded annually. Open to students in the third- and fourth-year classes whose records of ability and scholarship give evidence of special fitness.

Detwiler, Samuel R., Memorial (1957). Awarded annually. Given by Dr. Detwiler's friends and colleagues.

Devendorf, David M. Preference is given to a candidate from Herkimer County, New York, preferably one from the town of Herkimer. Given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861.

Doughty, Francis E. Given by Miss Phoebe Caroline Swords, in memory of Dr. Francis E. Doughty, Class of 1869.

Durante, Lawrence John. Awarded for medical student scholarships. Given by members of his class, Physicians and Surgeons 1961, in his memory.

Eichner, Joseph Herman and Hannah (1941). Awarded annually. Founded by the will of Benjamin Bernard Eichner, Class of 1919.

Frantz, Virginia Kneeland. Awarded annually. Bequest of Dr. Frantz. Established in 1967.

George and Charlie (1942). Awarded annually. Given by the Alumni Association of the College, in memory of George Peters and Charles Costello.

Hanlon, John F. Awarded annually. Given by members of the Class of 1951, in memory of their classmate, John F. Hanlon.

Harsen, Jacob (1859). Five; awarded annually Given by Dr. Jacob Harsen.

Hartley, Frank (1914). Given by friends and colleagues of Dr. Frank Hartley, Class of 1880.

Hemingway, William H. Several; awarded annually; to cover tuition.

Himmelstein, Aaron, Memorial (1960). Awarded annually. Open to undergraduate medical students. Given by Dr. Himmelstein's friends and colleagues.

Huber, Francis. Awarded annually. Open to a graduate of any institution other than Columbia University, the College of the City of New York, Barnard College, and Hunter College. Given by Dr. Francis Huber.

Huber, Viola B. Awarded annually. Open to a graduate of Hunter College. Given by Dr. Francis Huber.

Jacobi, Abraham. Four; awarded annually; two to graduates of Columbia University and two to graduates of the College of the City of New York. Given by Dr. Francis Huber in memory of Dr. Abraham Jacobi.

Jeal, Edward R. Awarded to deserving students studying under the Faculty of Medicine.

Lieb, Charles Christian. Awarded with preference given to an American, a worthy student, interested in the study of pharmacology. Given in memory of Dr. Charles Christian Lieb, Hosack Professor of Pharmacology.

Li Ming. Awarded with preference to students of Chinese birth or descent or nationality. Established by bequest of Mr. Li Ming.

Loeb, Robert F., Educational Gift (1961). For the education of children of full-time staff members.

McAneny, Marjorie. Awarded annually. Open to a graduate of Barnard College. Given by Dr. Francis Huber.

Manley, Herbert D. Awarded to assist worthy students in the College. Given as bequest by the late Dr. Herbert D. Manley.

McCullough, Elizabeth Hall. Awarded to one or more worthy medical students. Given by Mrs. William G. Heaphy in memory of her sister, Dr. Elizabeth McCullough, an alumna of Physicians and Surgeons.

Markoe, Francis Hartman. Awarded annually. Given by Madeline Shelton Markoe, in memory of her husband.

Mead, Mabel C. Awarded to women students of Chinese ancestry, preferably those desiring to study medicine.

Moritz, Samuel J., Memorial. Awarded to medical students in the College. Gift of the executors of the estate of Samuel J. Moritz.

Pfeiffer, Rudolph and Mary E. Awarded to assist one or more deserving and needy students of medicine. Given by Mrs. Mary E. Pfeiffer.

Rappleye, Willard Cole. Established at the retirement of Dean Rappleye.

Rhodebeck, Richard. Awarded to American-born medical students who are in need of financial assistance. Four full scholarships annually. Given in memory or her husband by Mrs. Richard Rhodebeck.

Rudin, Louis & Rachel. Established in 1970 by the Rudin Foundation for students of excellence who would not otherwise be able to complete their education.

St. John-Princeton (1955). Open to graduates of Princeton University who have been admitted to the College.

Sagamore. Awarded to needy students enrolled in the College to earn the degree of Doctor of Medicine.

Saphir, Joseph F., Memorial (1960). Awarded annually. Given by Elsa M. Saphir, in memory of her husband, Joseph F. Saphir, Class of 1902.

Severinghaus, Aura E. (1961). Established by The Clark Foundation as an unrestricted, discretionary fund to be used primarily for the support of students and student activities. Requests of fourth-year students who, by electing clerkships at the Mary Imogene Bassett Hospital, Cooperstown, New York, are subject to increased living and transportation costs are given priority.

Severinghaus, Aura E. (1962). Awarded annually. Given by faculty members, alumni, and students.

Stewart, Edgar Eginton, Jr., Memorial. Awarded annually. Given by Dr. E. E. Stewart, in memory of his son.

Strumdorf, Arnold. Awarded to one or more worthy students in their third and fourth years of medical school. Bequest of Miriam Strumdorf.

Vaughan, Harold S. Awarded to students of high character and scholastic ability. Bequest of Dr. Harold Vaughan, Class of 1904.

Vicale, Andrea, Memorial. Awarded to provide tuition and other financial assistance for deserving students in the College of Physicians and Surgeons. Established in memory of his father by Dr. Carmine T. Vicale.

Vollmer, Hermann. Awarded annually. Open to candidates in medicine. Established in his memory by his wife.

Vosseler, Theodore L. Awarded annually. Preference is given to graduates of Colgate University. Given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler.

Wechsler, Robert M. Awarded annually. Given by Dr. I. S. Wechsler, in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the Class of 1945, in memory of their classmate.

Wilson, Dr. James Lancelot. Awarded annually. In the words of the donor: "the income from this fund is to be awarded each year, without regard to race, creed or color, to a deserving male or female student suffering from ischemia of opportunity and finance; such student to be selected by the College of Physicians and Surgeons."

PRIZES

With the exception of the Stevens Triennial Prize, all awards are made annually.

Coakley Memorial Prize. Awarded by the Department of Otolaryngology to the student who, in the opinion of the Professor of Otolaryngology, has done the best work in the field for the current year.

Cock, Thomas F., M.D., Prize. Awarded to the student in the College who submits the best thesis on puerperal fever. Given by bequest of Augustus C. Chapin.

Gay, Frederick Parker, Memorial Award (1948). Awarded to a student doing outstanding work in microbiology who is chosen by the chairman of the Department of Microbiology and the Dean of the Faculty of Medicine. Given by Mrs. Frederick Parker Gay, in memory of her husband.

Janeway Prize. Awarded to the student graduating from the College who, in the opinion of the Faculty, has ranked highest in efficiency and ability. Given by bequest of Matilda S. J. Wisner.

Meierhof, Dr. Harold Lee, Prize. Awarded by the Professor of Pathology to the student who, in his opinion, has done the best work in the field for the current year. Given by the parents of Dr. Harold Lee Meierhof, Class of 1917.

Parker, Joseph Garrison, Award. Awarded to the senior in the College who best exemplifies, through a continued personal interest and activities in art, music, literature, or the public interest, the fact that Living and Learning go together. Given by Dr. and Mrs. Philip Parker, in memory of their son, Joseph, Class of 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts was a constant source of inspiration.

Psychiatry, Department of, Prize. Awarded by the Department of Psychiatry to a second-year student for the best work in psychopathology.

Sciarra, Helen M., Prize. Awarded to the fourth-year student who has done the best work in the third-year neurology elective.

Smith, Joseph Mather, Prize. Awarded to the graduate of the College whose essay or original research in medical subjects is deemed by the Committee of Award to be the most meritorious.

Stevens Triennial Prize. Awarded triennially to the person, not necessarily a graduate of the College, who submits the best essay or original research on any medical subject.

Urology Prize. Awarded to the undergraduate student who submits the best essay on a urological subject during the school year.

Watson, Dr. William Perry, Foundation in Pediatrics Prize (1921). Awarded to a member of the graduating class who has been in attendance for at least two years and who has shown the most efficient work in the study of the diseases of infants and children during the regular course at the College.

Winchester, Walter, Prize. Awarded to the senior in the College who, in the opinion of the Faculty, has the potential of exemplifying the humanitarian spirit in the art and practice of medicine as lived by the late Dr. Winchester, Class of 1900. Given by Dr. and Mrs. Lewis D. Kaufman.

► HOUSING

The current average room rate at Bard Hall is $635 for the academic year of thirty-eight weeks. First- and second-year medical student residents subscribe to a five-day-a-week, fifteen-meal, prepaid board plan; the present rate is $625 for the academic year, exclusive of the Christmas and Easter holiday periods. In case of marked increase in operating costs, all rates are subject to change. Room application blanks and further information concerning rates will be furnished on request by the Bard Hall Office, 50 Haven Avenue, New York, N.Y. 10032

Housing for married students is available at Bard Haven. For information, please contact Miss McCarthy at 100 Haven Avenue, New York, N. Y. 10032.

► STUDENT AND ALUMNI ACTIVITIES

All students enrolled in the College enjoy the privileges and facilities of the University campus, including the University libraries, the Placement Office, and the various student activities.

P&S CLUB

The P&S Club is now in its seventy-sixth year. During its long history it has concerned itself with the extracurricular activities of the medical students. It has enriched student life at P&S with its broad program of social, athletic, and cultural activities. The program is carried out by more than twenty student committees under the Director, Mr. Edwin M. Barton.

A faculty board of advisers assists the students and the Director in the operation and support of the club program. Every matriculated student in the College of Physicians and Surgeons is automatically a member and is invited to participate in the pursuits of his choice.

Among the activities sponsored by the P&S Club are an orientation program for news students, athletic contests, concerts, choir and vesper services, talks by guest lecturers, home visits with members of the faculty, and student-faculty visits.

In recent years, the Club has also sponsored conferences on such subjects as medicine and religion, and medicine and law, as well as on medical service appointments here and abroad.

THE ALPHA OMEGA ALPHA HONORARY FRATERNITY

The Alpha Omega Alpha honorary fraternity is a medical honor society, membership in which is based on scholarship and character. A chapter was organized at the College of Physicians and Surgeons in 1907.

ALUMNI ASSOCIATION OF THE COLLEGE OF PHYSICIANS AND SURGEONS

After graduation, all students who are in good professional standing may become members of the Alumni Association of the College of Physicians and Surgeons by notifying the secretary, Dr. Dorothy Estes Turino, 630 West 168th Street, New York, N.Y. 10032, that they wish to join.

The Program of Instruction

The objective of the recently revised program is to provide students with an environment in which they can develop a sense of responsibility for their continuing education. In addition to learning the basic skills essential to the modern physician-scientist, time is designated to allow full development of each individual's special talents and needs. Curricular flexibility, the methods by which medical knowledge is acquired and evaluated, an early exposure to clinical material through demonstrations and correlation clinics, and greater use of small group teaching are among the program changes which have received special emphasis.

The first year is devoted to basic science courses with frequent correlation clinics intended as a vehicle by which basic science material may be related to medical problems. Following the summer vacation, basic science courses are continued for one semester of the second year with the addition of interdepartmental courses in abnormal human biology and an introduction to the evaluation of patients and their problems.

The major clinical year is applied exclusively to a rotation of clerkships in the clinical disciplines. Under close supervision, the student is helped to develop attitudes, skills, knowledge, and habits applicable to a wide variety of clinical disorders. The primary education aims are to help the student to elicit an accurate and comprehensive history, to carry out complete and thorough physical examinations, to develop an understanding of the mechanisms involved and the various ways in which common patterns of disease affect the human being, to learn the principles necessary to reach valid clinical and diagnostic appraisals and effective therapeutic plans, and to acquire consideration and perceptiveness in the handling of patients.

The final semesters, with the inclusion of some vacation periods, are devoted primarily to clinical and basic science electives. These are arranged individually, and with flexibility, so as to prepare students to meet a variety of needs and goals, and to permit the use of the resources of the entire University, of affiliated hospitals as well as of programs elsewhere. Combined programs, courses in multiple disciplines, advanced clinical clerkships, and research are all possible during this period.

The College reserves the right to make changes in the program of studies and courses of instruction at any time.

► RESEARCH OPPORTUNITIES

The importance of clinical and laboratory investigation by the student is stressed. Students are encouraged to engage in some definite research project during their elective year, or may arrange a full year on their original investigation rather than proceed with the next regularly assigned academic year.

► MEDICAL SCIENTIST TRAINING PROGRAM

Application to this program is open to a limited number of students after acceptance to medical school or following the completion of their early years of study. This program is designed for those interested in an eventual career in academic medicine, teaching, and research. The curriculum includes all the essential courses leading to the M.D. degree, modified to special needs, as well as special courses and seminars in basic and clinical sciences. Usually after the basic science period, each student is expected to spend two years in study and research in his chosen field. Special charges are applicable. Faculty advisers are assigned to the students. A flexible program of financial support is provided.

► GRADES AND PROMOTION

Students are evaluated in terms of comments regarding their performance and professional attitudes. Official records indicate only whether they have passed or failed. Students are not ranked within their class.

A student may be advanced to the next academic year of the medical course or be allowed to repeat a year only upon the recommendation of the faculty members under which he studied during the previous year. Students are classified under the following headings: (1) recommended for advancement; (2) recommended for readmission to the same class. The Faculty of Medicine reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited for study in the College.

► KEY TO COURSE NUMBERS

Medical Center courses: The suffixes F, S, and T refer to the initial three semesters.

Numbers with no suffix indicate courses of the major clinical year covering a period of twelve weeks or less and being repeated to multiple-class groups.

► SUMMARY OF PROGRAM FOR FIRST- AND SECOND-YEAR CLASSES

FIRST-YEAR CLASS, 1971*

SEPTEMBER 13, 1971, TO FEBRUARY 19, 1972: First semester basic science courses and correlation clinics

FEBRUARY 28, 1972, TO JUNE 16, 1972: Basic science courses and correlation clinics

JUNE 16, 1972, TO SEPTEMBER 11, 1972: Vacation

*Second-, third,- and fourth-year curriculum for first-year class, 1971, is under study for revision.

SECOND-YEAR CLASS, 1971

SEPTEMBER 13, 1971, TO FEBRUARY 24, 1972: Introductory clinical and basic science courses

MARCH 13, 1972, THROUGH MARCH 2, 1973: Major clinical year, clinical clerkships

► BASIC SCIENCE AND INTRODUCTORY CLINICAL COURSES (THREE SEMESTERS)

Anatomy 101F. Microscopic anatomy
The departmental staff.

Anatomy 102F. Human anatomy
The departmental staff.

Anatomy 102S. The structure and function of the nervous system
Drs. Carpenter and Noback (*Anatomy*).
Lectures, demonstrations, and laboratory.

Biochemistry 101F. Introductory biochemistry
The departmental staff.

Genetics 101T.
Dr. Marks and associates.

Medicine 101FS. Correlation clinics
Drs. Frantz and Herter.
Series of clinics illustrating the application of basic science to the understanding of disease mechanisms.

Medicine 102T. Introduction to the patient
Dr. Aranow and associates.
Includes physical diagnosis as well as patient approach.

Medicine 103T. Abnormal human biology
Dr. Rifkind and interdepartmental associates.
Exercises in the application and correlation of the basic sciences to a broad range of clinical problems including the cardiopulmonary, renal, gastrointestinal, endocrinologic, and hematologic systems, as well as clinical immunology and infectious diseases. Teaching is by seminar with supporting lectures, and is closely integrated with the courses in pharmacology and with *Medicine 102T—Introduction to the patient.*

Microbiology 101S. General medical microbiology and immunology
The departmental staff.

Microbiology 105F. Principles of microbiology, immunology, epidemiology, and the specific diagnosis and therapy of infectious diseases
The departmental staff.

Pathology 101S. General and special pathology and neuropathology
Dr. King and the departmental staff.

Pharmacology 101T. General and special pharmacology
The departmental staff.

Physiology 101F. Human physiology
The departmental staff.

Psychiatry 101FST. Human behavior
Drs. Kolb and Michels, and the departmental staff.

Public Health 101T. Parasitic diseases
Dr. Katz and staff.
The protozoa, helminths, and arthropods of medical significance.

Surgery 101T. Introduction to surgery
Dr. Wiedel and staff.

► MAJOR CLINICAL YEAR

Anesthesiology 201. Practical anesthesiology and seminars
Dr. Ngai and staff.

Dermatology 201. Dermatology and syphilology
Drs. Nelson, Sanders, Young, and staff.

Medicine 201. Ward clinical clerkship in medicine
Dr. Tapley (*in charge*) and staff.

Neurology 201. Ward clinical clerkship in neurology
Dr. Masland and the staff at the Neurological Institute.

Neurology 202. Neurosurgery
Dr. Pool.
Included in neurology clerkship.

Obstetrics and Gynecology 201. Clinical clerkship in theory and practice of obstetrics and gynecology
The departmental staff.
Includes anatomy and physiology of the pelvic organs, pregnancy and the mechanisms of normal labor, complications of pregnancy, and the diagnosis and management of gynecological disorders.

Ophthalmology 201. Practical instruction in ophthalmology
The departmental staff. At Vanderbilt Clinic and the Institute of Ophthalmology.

Orthopedic Surgery 201. Practical instruction in orthopedics, including fractures and dislocations
Dr. Stinchfield and staff.

Otolaryngology 201. Practical instruction in the diseases of the ear, nose, and throat
Dr. Baker and staff. At Vanderbilt Clinic.

Pediatrics 201. Introduction to pediatrics: clinical clerkship
Dr. Mellin and staff. At Babies Hospital.
Includes the study of diseases of infants and children; their growth and development and maintenance of their health.

Psychiatry 201. Clerkship in psychiatry
Drs. Michels, W. Hunt, Druss, and Langford, and the clinical faculty. At New York State Psychiatric Institute and Presbyterian Hospital.

Public Health 201. Preventive and administrative medicine, forensic medicine and medical jurisprudence, and community medicine
The departmental staff.

Radiology 201. Diagnostic radiology (medical)
Dr. Seaman and staff.

Radiology 202. Diagnostic radiology (surgical)
Dr. Seaman and staff.

Rehabilitation Medicine 201.
Dr. Darling and staff.

Surgery 201. Clinical clerkship in surgery
Dr. Herter and staff.

Surgery 202. Lectures and demonstrations in surgical pathology
Dr. Lattes and staff.

Urology 201. Practical instruction and clinical clerkships in urology
Dr. Lattimer and staff.

► ELECTIVE YEAR

A wide selection is possible in virtually every department, on the University campus and elsewhere, in any of the following categories: combined basic science-clinical electives, advanced clerkships, additional clinical electives, courses in a variety of disciplines, and research programs. Students, with the counsel of their advisers, may select many different electives or focus on one or more areas. Among popular programs are subinternships in the major disciplines; added experience in the clinical specialties; involvement in such fields as trauma, emergency care, comprehensive ambulatory care, metabolism and endocrinology, cardiology, respiratory problems, public health and community projects, drug abuse and alcoholism, hematology, oncology, kidney disease, radiology, and many others. An elective in medicine in the tropics is available to fourth-year students who serve for three months in hospitals in South America, Africa, or Asia.

The letter suffix following the elective-year course number indicates the place the course is given.

C indicates Mary Imogene Bassett Hospital.

D indicates Francis Delafield Hospital.

H indicates Harlem Hospital.
I indicates New York State Psychiatric Institute.
L indicates St. Luke's Hospital.
P indicates Presbyterian Hospital.
R indicates Roosevelt Hospital.
The electives in the various departments are listed below.

ANATOMY

AN01P. Cell biology
Four months. Dr. Dempsey and staff.

AN02P. Orthopedic anatomy
One month. Drs. Bassett and Jenkins.

ANESTHESIOLOGY

AS01P. Advanced clerkship
One to three months. Dr. C. C. Wolf.

AS02P. Respiratory care of surgical patient
One month. Drs. Karis and Sullivan.

AS03P. Advanced clerkship in anesthesiology and neuropharmacology
One or two months. Drs. Gissen, Karis, and Ngai (*Anesthesiology*) and Dr. S. C. Wang and staff (*Pharmacology*).

AS04P. Advanced clerkship in anesthesiology and cardivascular pharmacology
Three to six months. Drs. Ngai and Wolf (*Anesthesiology*) and Dr. B. F. Hoffman and staff (*Pharmacology*).

AS05P. Electrophysiology of heart and clinical anesthesia for open heart surgery
Three to six months. Drs. Sullivan, Patterson, and Philbin (*Anesthesiology*) and Dr. B. F. Hoffman and staff (*Pharmacology*).

BIOCHEMISTRY

BI01P. Introductory biochemistry, I
Fifteen weeks. Biochemistry staff.

BI02P. Introductory biochemistry, II
Fifteen weeks. Biochemistry staff.

BI03P. Selected topics in physical biochemistry
Fifteen weeks. Dr. A. Gold.

BI04P. Stereochemistry of the macromolecules
Two months. Dr. Low.

BI05P. Introduction to x-ray crystallography
Fifteen weeks. Dr. Low.

BI06P. Seminar in selected topics in biochemistry
Fifteen weeks. Biochemistry staff.

BI07P. Chemistry of intermediate metabolism
Fifteen weeks. Dr. Eisenberg.
Given at Morningside campus.

BI08P. General biochemistry
Fifteen weeks. Dr. Krasna.
Given at Morningside campus.

BI09P. Research in biochemistry
Periods to be arranged. Biochemistry staff.

BI10C. Biochemistry of proteins
Two to three months. Dr. Peters.

BI11C. Biochemistry of proteins
Two months. Dr. Warren.

COMMUNITY MEDICINE

CM01D. Treatment of drug addiction
Three months. Dr. Wesley.

CM02R. The patient in crisis: emergency ambulatory care
Two months. Dr. Iaquinta and staff.

CM03R. Alcohol and drug abuse
Two months. Dr. Iaquinta and staff.

CM04R. Community medicine: comprehensive family care
Two months. Dr. Iaquinta and staff.

CM05R. Combined course in ambulatory care
Two months (half time for students enrolled in *CM02R, CM03R,* or *CM04R*). Dr. Iaquinta.

CM06C. Clinical clerkship in general services clinic
Four weeks. Dr. Pollock.

CM07L. Comprehensive ambulatory care in a neighborhood health service program
Two months. Dr. Van Itallie and Mrs. Esta Armstrong.

CM08L. Community medicine
Two months. Dr. Van Itallie and staff.

DERMATOLOGY

DR01P. Externship in dermatology
One month. Drs. Nelson, Sanders, and Walzer, and staff.

DR02P. Clinical clerkship
Four weeks. Drs. Nelson and Sanders, and staff.

DR03L. Clinical dermatology
Four weeks. Drs. Young, Larralde, Lombardo, Sween, Barker, and Barbee.

HUMAN GENETICS AND DEVELOPMENT

GN01P. Advanced human genetics
Two semesters. Dr. Marks and associates.

GN02P. Research in genetics and developmental biology
Three months. Dr. Marks and associates.

MEDICINE

MD01D. Advanced clinical clerkship
Two months. Dr. Wertheim and staff.

MD02P. Differential diagnosis
Mid-October to March. Dr. Wertheim.

MD03P. Group clinic and Harkness Pavilion
Two months. Attending staff.

MD04P. The admitting ward (for senior students)
One to two months. Medical Chief Resident.

MD05L. Advanced clinical clerkship
One or two months. Dr. Van Itallie and associates.

MD06H. General medicine clerkship
One month. Dr. Harvey and associates.

MD07R. Subinternship in internal medicine
One or two months. Dr. Christy and staff.

MD08C. Advanced clinical clerkship
One to three months. Dr. Page.

CARDIOLOGY

CR01P. Clerkship in cardio-respiratory diseases
Four weeks. Dr. Ferrer and associates.

CR02P. Clinical electrocardiography
Eight one-hour lectures. Dr. Ferrer.

CR03P. Subinternship in cardiac and thoracic surgery
One or two months. Attending staff.

CR04P. Clinical pediatric cardiology
One month. Dr. Levine.

CR05P. Research in cardiorespiratory physiology
Two months. Drs. Mellins and Levine.

CR06P. Cardiovascular pharmacology
One month. Drs. Hoffman, Wang, and invited participants.

CR07P. Cardiac arrhythmias and conduction disturbances
Two months. Dr. B. Hoffman.

CR08P. Excitation-contraction coupling in cardiac and smooth muscle
Three months. Dr. Bassett.

CR09P. Cardiovascular physiology and pharmacology
Three or six months. Dr. Wang.

CR10R. Subinternship in cardiac surgery
One month. Drs. Heoh and Harris.

CR11R. Subinternship in clinical cardiology
One month. Dr. Jameson and associates.

CR12L. Clinical cardiology
One-, two-, or three-month periods. Dr. Bell and associates.

ENDOCRINOLOGY AND METABOLISM

EN01P. Endocrinology and metabolism
One month. Dr. Frantz.

EN02P. Seminar in biochemistry of the hormones
Fifteen weeks. Dr. Lieberman.

EN03P. Clinical pediatric endocrinology
One or two months. Drs. Morishim and Bell.

EN04P. Metabolism and endocrinology
One month. Dr. Hashim and associates.

EN05R. Pediatric endocrinology, cytogenetics, and fetal development
Two months. Dr. Abrams and staff.

EN06P. Research in endocrinology and metabolism.
Three or more months. Drs. Buchanan, Canfield, Frantz, Goodman, Loeb, Primack, Rivlin, Tapley, and Werner.

EN07P. Biosynthesis of steroid hormones
Six months. Dr. F. Hofmann (*Pharmacology*)

EN08L. Research in steroid biochemistry and endocrinology
Two months. Dr. Kelly.

EN09L. Research in metabolism and endocrinology
Two to six months. Dr. Hashim and staff.

ETHICS

ET01P. Research internship in ethics of medical practice
One or two months. Dr. Gaylin and associates.

ET02P. Medical manipulation of man
Two hours a week, spring term. Dr. Gaylin and associates.

PS17P. Psychosocial aspects of patient care
Two hours a week, on a semester basis. Drs. Poslusny, Brady, Overholser, and Blumenthal.

GASTROENTEROLOGY

GE01P. Comprehensive elective in gastroenterology
February and March, 1972. Dr. Holt.

PE06L. Introduction to infant and child nutrition
See under *Pediatrics*.

RA08P. Radiology of the gastrointestinal tract
See under *Radiology*.

GE02P. Pediatric malabsorptive problems
One month. Drs. Denning and Ores.

GE03P. Animal studies in hepatic circulatory and biliary excretory physiology
Available for a minimum of three months. Dr. Bradley.

GE04L. Human and animal studies on aspects of intestinal lipid absorption or on hepatic metabolism
Dr. Clark.

GE05L. Nutritional physiology
Available for a minimum of three months. Dr. Hashim.

GE06L. Human and animal studies concerned with adaptive responses of the intestine in health and disease
Available for a minimum of three months. Dr. Rosensweig.

GE07P. Studies of mechanism of transport across cell membranes and calcium transport in the small intestine
Available for a minimum of three months. Dr. Schachter.

GE08P. Clinical research on relationship of nutritional defects, alcoholism, and intestinal absorptive function
Available for a minimum of three months. Dr. Lindenbaum.

SU14P. Surgical hepatic physiology and transplantation
See under *Surgical Research.*

SU15P. Mechanism of gastrointestinal function
See under *Surgical Research.*

HEMATOLOGY-ONCOLOGY

HM01P. Clinical hematology
One to three months. Dr. Rifkind and associates.

HM02P. Clinical pediatric hematology and oncology
One or two months. Drs. Wolff and Santulli.

HM03P. Clinical pediatric oncology, including chemotherapy
One or two months. Drs. Santulli and Wolff.

HM04P. Research in hematology
Three or more months. Drs. Bank, Lindenbaum, Marks, Nossel, and Rifkind.

HM05L. Hematology and cell biology
One month. Dr. John Bertles and associates.

IMMUNOLOGY

IM01P. Rheumatic disease—immunology
One or two months. Dr. LeRoy and associates.

IM02R. Clinical immunology and immunopathology
Two months. Dr. Fine and associates.

IM03P. Research in immunology and connective tissue
Four to twelve months. Drs. LeRoy, Morse, Butler, and Bray.

INFECTIOUS DISEASES

IN01P. Clinical infectious diseases
One month. Dr. Neu.

IN02P. Clinical pediatric infectious diseases
One month. Drs. Curnen and Sprunt.

IN03C. Clinical clerkship in infectious diseases
One to three months. Dr. Page.

PULMONARY DISEASES

PU01R. Diseases of chest and respiratory tract
One month. Given by the Departments of Medicine, Anesthesiology, and Surgery. Dr. Schaffeld.

PU02H. Chest diseases
One month. Drs. Ragan, Jones, and Felton, and staff.

PU03P. Clinical pediatric pulmonary disease
One or two months. Drs. Lifschitz and Gaerlan.

PU04P. Clerkship in pulmonary disease
One month. Drs. Jones, Fritts, Edsall, Felton, Rochester, and Thomas, and resident staff.
Given at both Presbyterian and Harlem hospitals.

PU05L. Clinical chest
One-, two-, or three-month periods. Dr. Bell and staff.

RENAL DISEASE

RD01L. Nephrology
One month. Dr. David and associates.

RD02P. Pediatric kidney diseases; fluid and electrolyte disorders and acid-base disturbances
One or two months. Drs. Winters, Bell, and Klenk.

RD03D. Clinical and laboratory assistantship in hemodialysis and transplantation
One or two months. Dr. Buda.

RD04P. Metabolic methods in renal calculus disease
Eight weeks. Dr. Zinsser and staff.

RD05P. Research in physiological urology
One month or multiples thereof. Dr. Mason.

RD06P. Renal and acid-base physiology
One or two months. Drs. Dell and Winters.

HISTORY OF MEDICINE

HX01P. History of medicine
Twelve weeks, one-hour sessions. Drs. Richards and Cournand.

MICROBIOLOGY

MC01P. Clinical bacteriology and serology
Two hours a week, spring semester. Drs. Ellner and Rose.

MC02P. Mycology
Time to be arranged. Dr. Silva-Hutner (*Dermatology*).

MC03P. Seminar in clinical microbiology
One and one-half hours a week, one semester. Dr. Ellner.

MC04P. Seminar in microbiology
Fall or spring semester, one and one-half hours a week. Dr. Rose, staff, and guests.

MC05P. Research in microbiology
Time and length to be arranged. Dr. Rose and staff.

MC06P. Advanced immunochemistry
Spring semester, 2 hours a week. Drs. Beiser, Howe, and Kabat.

MC07P. Techniques in immunochemistry
Three to six months. Drs. Beiser, Howe, and Kabat.

MC08P. Techniques in virology
Three to six months. Drs. Harter, Howe, Morgan, Rose, and Rosenkranz.

MC09P. Microbial chemistry and metabolism
Fall semester, two hours a week. Drs. Erlanger and Tanenbaum.

MC10P. Techniques in microbial metabolism
Three to six months. Drs. Erlanger and Tanenbaum.

MC11P. Techniques of clinical bacteriology and serology
Three to six months. Drs. Ellner and Rose.

NEUROLOGICAL SURGERY

NU10P. Combined clinical neurological surgery and basic science
One to three months. Drs. Pool and Stein, and staff.

NEUROLOGY

NU01H. Senior clinical clerkship
One or two months. Dr. Richter and staff.

NU02L. Clinical neurology
One or two months. Drs. Thomas, Braun, and Korenman.

NU03P. Senior clinical clerkship
One or two months. Dr. Masland and staff.

NU04P. Review of neurobiology
Two months. Dr. Harter and associates.

NU05P. Clinical laboratory studies
Two or four months. Drs. Goldensohn and Lovelace, and staff.

NU06P. Clinical research
Two or more months. Dr. Yahr and associates.

NU07P. Studies in neuropharmacology: drugs affecting spinal reflexes
Two months. Dr. Wang and associates.

NU08P. Studies in neuropharmacology: site of action of antiarrhythmic agents which influence cardiac arrhythmias of neurogenic origin
Two months. Dr. Wang and associates.

NU09P. Studies in neuropharmacology: actions of antihistaminic and anticholinergic agents on the vestibular system
Two months. Dr. Wang and associates.

OBSTETRICS AND GYNECOLOGY

OB01P. Advanced clerkship in obstetrics and gynecology
One or more months. Dr. Vande Wiele and staff.

OB02R. A subinternship on the obstetrics and gynecology service
One or two months. Dr. Dillon.

OB03R. Family-planning clinic
One or two months. Dr. Risk.

OB04L. Advanced clerkship in obstetrics and gynecology
Two months. Dr. Tovell and associates.

OB05H. Clerkship in obstetrics and gynecology
One or two months. Dr. D. Swartz and staff.

OB06P. Perinatology
Four weeks. Dr. James and staff.

OB07P. Reproduction
One month. Dr. Vande Wiele and staff.

OB08R. Clinical clerkship in obstetrics and gynecology
One month. Dr. Dillon and staff.

OB09R. Antenatal assessment of the fetus
One month. Dr. Dillon and staff.

OB10L. Research in steroid biochemistry and endocrinology
Two or more months. Dr. Kelly.

OPHTHALMOLOGY

OP01P. Clinical ophthalmology
Four to eight weeks. Dr. Day and staff.

OP02C. Basic clinical ophthalmology
Two to four weeks. Dr. Farrell.

OP03P. Basic science elective in ophthalmology
Four to eight weeks. Dr. Smelser.

ORTHOPEDIC SURGERY

OR01P. Advanced orthopedic clerkship
One or two months. Drs. Stinchfield (*Presbyterian*) and Thompson (*St. Luke's*).
Given on a rotation basis at both Presbyterian and St. Luke's hospitals.

OR02P. Research in musculoskeletal problems
Two months. Dr. Bassett.

OR03P. Advanced clerkship in trauma
One or two months. Drs. LaMotte, Patterson, and Parkes.

OR04L. Orthopedic clinical clerkship: biomechanics research
Two months. Dr. Thompson and staff.

OTOLARYNGOLOGY

OT01P. Clinical clerkship in otolaryngology
Two months. Drs. Baker, Basek, Waltner, and Hui.

OT02P. Surgery of the head and neck
Two months. Drs. Conley and Rankow.

OT03P. Temporal bone anatomy and microsurgery of the ear
Eight weeks. Drs. Basek, Waltner, and Kovar.

OT04P. Research in auditory physiology
Eight weeks. Dr. Tonndorf and Khanna.

PATHOLOGY

PA01D. Clinical pathological aspects of connective tissue diseases
Two months. Drs. Wagner, Shapiro, and Leader.

PA02D. Pathology of neoplasia, diagnostic and investigative
Four months. Dr. Pascal.

PA03H. Anatomic pathology
Two months or longer. Drs. Roberts, Brown, and Weeks.

PA04H. Toxicology
Two months. Drs. Roberts and Hagstrom, and Mr. Archibold.

PA05C. The hospital practice of pathology
One month. Drs. Hawn and Roberts.

PA06P. Pathology—morphologic-clinical
Six weeks or three months. Dr. King and staff.

PA07P. Career in pathology
Three to twelve months. Dr. King and staff.

PA08P. Research in neurobiology, pathobiology, immunology, genetics, virology, and infectious disease
Three to twelve months. Dr. King and staff.

PA09P. Clinical externships
Three months. Dr. King and staff.

PEDIATRICS

PE01P. Ambulatory pediatrics
One or more months. Dr. Asnes and staff.

PE02P. Clinical perinatology
One or two months. Dr. James and staff.

PE03P. Subinternship in pediatrics
One month. Dr. Mellin and staff.

PE04P. Subinternship in pediatric surgery
One or two months. Dr. Santulli

PE05L. Advanced clinical pediatrics
One or two months. Dr. Stevenson and associates.

PE06L. Introduction to infant and child nutrition
One month. Dr. Stevenson and associates.

PE07H. Clinical clerkship
One or two months. Dr. Kahn and associates.

PE08H. Straight neonatology
One month. Dr. Glass and staff.

PE09C. Pediatrics
Four weeks. Attending staff.

PE10R. Subinternship in general pediatrics
One or two months. Dr. Joyner and associates.

PE11P. Research in clinical chemistry
One or two months. Drs. Strande and Winters.

PE12P. Research in pediatric cytogenetics
Two or three months. Dr. Morishima.

PHARMACOLOGY

PH01P. Decisions in diagnosis and treatment
Two months. Faculty members from participating departments.

PH02P. Medical therapeutics and applied pharmacology
Fourteen weeks. Drs. F. Hofmann (*Pharmacology*) and Southworth (*Medicine*), and associates.

PH03P. Neural control of salivation
Three months. Dr. Kahn.

PH04P. Chemical mediators of inflammation
Periods to be arranged. Dr. Greenbaum.

PH05P. Backgrounds in pharmacology
Ten weeks. Dr. Greenbaum.

PH06P. Advances in pharmacology
Ten weeks. Dr. Greenbaum.

PH07P. Advanced pharmacology
Ten weeks. Dr. Greenbaum.

PH08P. Neurohypophysiologic hormones and salt and water balance
Two months. Dr. Sawyer.

PHYSIOLOGY

PY01P. Advanced topics in control mechanisms and neurophysiology
Fifteen two-hour seminars. Alternate (odd) years. Dr. Chien and staff.

PY02P. Biophysics of cell membranes
Fifteen two-hour seminars. Dr. Schacter and staff.

PH03P. Biophysics of muscle
Two months. Dr. Costantin.

PY04P. Research in cardiovascular physiology
Two months. Drs. Chien and Usami.

PH05P. Cell biophysics
Two months. Drs. Loewenstein and Socolar.

PH06P. Coding in the central nervous system
Two months. Dr. Emmers.

PY07P. Endocrine aspects of cell regulation
Two months. Drs. Nocenti and Cizek.

PY08P. Neural mechanism of hunger and thirst
Two months. Dr. Emmers.

PY09P. Neuromuscular physiology
Two months. Dr. Nastuk.

PY10P. Physical properties of interfaces
Two months. Drs. Blank and Britten.

PY11P. Physiology of vision
Two months. Dr. Witkovsky.

PY12P. Receptor physiology
Two months. Dr. Karlin.

PY13P. Renal physiology
Two months. Dr. Mason.

PY14P. Transport mechanisms
Two months. Dr. Schacter.

PY15P. Electrophysiology of muscle
Time to be arranged. Dr. Costantin.

PY16P. Biophysics of the erythrocyte
Time to be arranged. Drs. Chien and Usami.

PY17P. Hemodynamics in the micro-circulation
Time to be arranged. Drs. Chien and Usami.

PY18P. Organization of the somesthetic system
Time to be arranged. Dr. Emmers.

PY19P. Selected topics in endocrinology
Time to be arranged. Dr. Nocenti.

PH20P. Surface properties of biological systems
Time to be arranged. Drs. Blank and Britten.

PY21P. Transport and enzymatic functions of biological membranes
Time to be arranged. Dr. Schachter.

PSYCHIATRY

PS01P. Subinternship in psychiatry
Four to six months. Dr. Michels and staff.

PS02P. Advanced clinical clerkship
One to three months. Dr. Michels and staff.

PS03P. Community and social psychiatry
Two months or more. Dr. K. Smith and staff.

PS04P. Child psychiatry clerkship
One to three months. Dr. Langford and staff.

PS05P. Liaison psychiatry
One or two months. Dr. Kornfeld and staff.

PS06P. Hypnosis
Two months. Dr. Spiegel.

PS07L. Advanced clinical clerkship of acute psychiatric disorders
One to three months. Drs. Feigelson and MacDonald.

PS08L. Emotional problems of the student: an introduction to college and university psychiatry
Two months. Dr. Milici.

PS09L. Day-center psychiatry (partial hospitalization)
Two or more months. Dr. Klagsbrun.

PS10L. Community psychiatry and the disorganized family
Three months. Dr. Talbott and staff.

PS11R. Subinternship in psychiatry
One or two months. Dr. Wainwright and associates.

PS12R. Subinternship in community mental health
Two months. Dr. Levitt and associates.

PS13R. New theoretical models in psychiatry
Two months, one-half time. Dr. Shands and associates.

PS14R. Crisis intervention with college students
Two months. Drs. Kopff, Rudy, Manton, and Seides.

PS15H. Advanced clinical clerkship
One to three months. Dr. Davis and staff.

PS16C. Advanced clinical clerkship in general psychiatry
One to three months. Dr. Gurian.

PS17I. Psychometabolic research
Two months to a year. Dr. Fieve.

PS18I. Clinical psychopharmacology
One to three months. Dr. Malitz.

PS19I. Introduction to therapeutic milieu
Three months. Dr. Hunt.

PS20I. Social psychiatry
Three months. Dr. Dohrenwend.

PS21I. Psychiatry and genetics
Two or three months. Dr. Rainer.

PS22I. Language and speech
Two or three months. Dr. Jaffee.

PS23I. Biometrics
Two or three months. Drs. Endicott, Spitzer, and Zubin.

PS24I. Research in neurochemistry
Two or three months. Drs. Rapport and Kaufman.

PS25I. Neurochemistry of alcohol addiction
There months or more. Dr. Cohen.

PS26I. Neuropathology
Three months. Drs. Roizin and Kaufman.

PS27I. Research in psychiatry
Two or more months. Dr. Cohen and associates.

PUBLIC HEALTH

PB01P. Elementary biostatistics
One month. Drs. Fertig and Varma.

PB02P. Advanced biostatistics
Six weeks. Drs. Fertig and Varma.

PB03P. Interrelation of public health and mental health
Eight or sixteen weeks. Dr. Smith.

PB04P. Principles of epidemiology
Sixteen weeks. Dr. Susser and staff.

PB05P. Special studies in epidemiology
Four to eight weeks, second semester. Dr. Susser and staff.

SP01A. Community medicine abroad
Time to be arranged. Dr. Susser.

PB06P. Seminar in social medicine
One semester. Drs. Rush and Stein.

PB07P. Special studies in environmental health sciences
One to three semesters. Dr. Hoover and staff.

PB08P. Seminar in legal medicine
Second semester. Drs. Werne and Hoover.

PB09P. Tutorial in maternal and child health
Second semester. Dr. Downs.

PB10P. Special studies in sociomedical science
Second semester. Dr. Elinson and staff.

SP02A. Medicine in the tropics
Eight weeks. Dr. M. Katz.

PH11P. Special studies in medical care administration
Time to be arranged. Dr. Bryant.

RADIOLOGY

RA01P. Diagnostic radiology
One month. Dr. Seaman and staff.

RA02P. Clinical clerkship in diagnostic radiology
Three months. Dr. Seaman and staff.

RA03P. Radiotherapy
One month. Drs. Chang and Tretter.

RA04P. Nuclear medicine
One month. Drs. Johnson and Reilly.

RA05P. Radiology of bones and joints
Three months. Dr. Alpert and staff.

RA06P. Physics of diagnostic radiology
Eight weeks. Drs. Hilal and Seaman and staff.

RA07P. Nuclear medicine
Eight weeks. Dr. Johnson and staff.

RA08P. Radiology of gastrointestinal tract
Three days. Dr. Seaman and staff.

RA09R. Clinical clerkship in radiology
One month. Dr. Dunn and staff.

RA10L. Diagnostic radiology
One or two months. Dr. Finby and staff.

RA11P. Clinical pediatric radiology
One month. Drs. Baker and Berdon.

REHABILITATION MEDICINE

RH01P. Clinical clerkship in rehabilitation medicine
One, two, or three months. Dr. Darling and staff.

RH02P. Pediatric rehabilitation
Four weeks. Dr. Darling and staff.

RH03H. Clinical clerkship
One or two months. Dr. Anderson and staff.

RH04P. Research in rehabilitation medicine
One, two, or three months. Dr. Corcoran and associates.

SOCIAL SERVICE

SS01P. Patient care planning
Six weeks. Miss Prichard and associates.

SS02H. Introduction to social services
Two hours a week, six sessions. Dr. Russell and staff.

SS03H. Tutorial in social service
Eight sessions. Dr. Russell and staff.

SURGERY

SU01D. Subinternship in general surgery
One or two months. Dr. Gump and staff.

SU02C. Advanced clerkship in surgery
Two months. Dr. Blumenstock and staff.

SU03R. Subinternship in general surgery
One or two months. Dr. Wickern and staff.

SU04R. Subinternship in surgical trauma
One month. Dr. Wichern and staff.

SU05R. Clinical hand surgery
One month. Drs. Eaton and Littler.

SU06P. Subinternship in general surgery
One or two months. Dr. Gump and staff.

SU07X. Surgical precepteeship
One month. Dr. Gump.
Given in community hospitals outside New York City.

SU08P. Subinternship in pediatric surgery
One or two months. Dr. Gump and staff.

SU09P. Subinternship in plastic and reconstructive surgery
One or two months. Dr. Crikelair and staff.

SU10L. Subinternship in general surgery
One or two months. Dr. Fitzpatric and associates.

SU11L. Plastic and reconstructive surgery
One or two months. Drs. Stark, DeHaan, and Washio.

SU12H. Clinical clerkship (subinternship) in general surgery
One to three months. Drs. Ferrer, Randall, and Forde, and staff.

SU13H. Burn unit and plastic surgery
One month. Drs. Garnes and Forde, and staff.

SU14P. Surgical hepatic physiology and transplantation laboratory assistantship
Two or three months. Dr. Price.

SU16P. Biochemistry and biology of wound-healing
Two months or longer. Dr. Prudden.

SU17P. Experimental surgery, surgical anatomy, ambulatory surgery
One month. Dr. Bhonslay.

SU18D. Laboratory assistantship in organ preservation
Two months. Dr. Buda.

SU19P. Surgical pathology
Two months. Dr. Lattes and associates.

SU20R. Clinical clerkship in surgical pathology
One or two months. Dr. Garret and associates.

UROLOGY

UR01D. Cancer of the urological tract
One month. Dr. Veenema and staff.

UR02H. General urology
One month. Dr. Garnes and staff.

UR03P. Adult urology subinternship
One month. Dr. Lattimer and staff.

UR04P. Pediatric urology subinternship
One month. Dr. Roberts and staff.

UR05X. Human reproduction
Two months. Drs. Zinsser and Richart.
Given at Central Family Planning Institute, New Delhi, India.

UR06X. Practical urology—male, female, and pediatrics
One month. Dr. Justice.
Given at U.S. Public Health Service Hospital, Staten Island, New York.

UR07P. Combined advanced urological research and pathology
One month. Dr. Tannenbaum.

UR08R. General urology
One month. Dr. Perrin Snyder and staff.

UR09P. Research in physiological urology
One month. Dr. Mason.

UR10P. Metabolic methods in rental calculus disease
Eight weeks. Dr. Zinsser.

► SUMMARY OF STUDIES (IN HOURS)

BASIC SCIENCE

	HOURS		HOURS
Anatomy 101F	232	Pathology 101S	182
Anatomy 102S	80	Pharmacology 101T	102
Biochemistry 101F	108	Physiology 101F	108
Genetics 101T	34	Psychiatry 101FS	69
Medicine 101FS	31	Psychiatry 102T	24
Medicine 102T	181	Public Health 101T	39
Medicine 103T	136	Surgery 101T	34
Microbiology 101S	126	TOTAL	1,486

MAJOR CLINICAL YEAR

	HOURS		HOURS
Anesthesiology 201	64	Psychiatry 201	130
Dermatology 201	17	Public Health 201	65
Medicine 201	330	Radiology 201	11
Neurology 201-202	192	Radiology 202	11
Obstetrics and Gynecology 201	192	Rehabilitation Medicine 201	10
Ophthalmology 201	18	Surgery 201	160
Orthopedic Surgery 201	64	Surgery 202	20
Otolaryngology 201	18	Urology 201	64
Pediatrics 201	192	TOTAL	1,558

► SPECIAL PROGRAMS

PROGRAMS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

A student may plan a sequential program leading to the award of both the M.D. and the Ph.D. degrees. He may begin such a program either in the College or under the Faculty of Pure Science, but he may not be registered in the two faculties concurrently. It is usually to his advantage to complete the requirements for the M.D. degree first, since some of the required medical courses and elective research opportunities may be credited toward the Ph.D. degree. A student interested in this program should consult the chairman of the basic science department in which he plans to major and the Associate Dean of the Faculty of Medicine.

A limited number of students may be accepted in the basic science departments of the College—Anatomy, Biochemistry, Microbiology, Pathology, Pharmacology, and Physiology—and in the Subcommittee on Biophysics (see below). Because of limited facilities only candidates for the Ph.D. degree are accepted. Work toward the degree in the basic science departments is under the jurisdiction of the Faculty of Pure Science of the University and must receive approval by the departmental chairman concerned. Admission and degree requirements and courses of instruction are given in the bulletin of the Graduate School of Arts and Sciences.

RESEARCH IN RESIDENCE

A graduate student who wishes to engage in special clinical or investigative work under the direction of a department may, with the approval of the Dean, register for research in residence (see the schedule of fees).

CURRICULA IN PHYSICAL THERAPY AND OCCUPATIONAL THERAPY

Educational programs leading to the Bachelor of Science degree in occupational therapy or physical therapy are offered by the Department of Rehabilitation Medicine to students with a background of two years of college; the programs are ap-

proximately two years in length. Students who have already earned a baccalaureate degree may apply for admission to a one-year program leading to a professional certificate in physical therapy or to a two-year program leading to a Master of Science degree in occupational therapy. Details are given in the University bulletin *Courses in Physical Therapy and Occupational Therapy*.

PROGRAM OF THE PSYCHOANALYTIC CLINIC

A course of training in the theory and practice of psychoanalytic medicine is offered through the Psychoanalytic Clinic for Training and Research of the Department of Psychiatry. The program, a minimum of four years in length, leads to the award of a Certificate in Psychoanalysis. For details, see the bulletin of the Psychoanalytic Clinic.

Physicians participating in this training program who wish to be considered for acceptance as candidates for the degree of Doctor of Medical Science may request further information from the Office of the Dean of the Faculty of Medicine.

PROGRAM IN HUMAN NUTRITION

The Faculty of Medicine offers a program of study in nutrition leading to the degree of Master of Science in human nutrition. Prerequisite for admission is an M.D. degree from an approved medical school or a bachelor's degree from a college or university approved by Columbia University. Previous preparation in quantitative analysis, elementary organic chemistry, and elementary biochemistry is recommended for admission. Evidence of personal capability and fitness for this field is also a requirement. In addition to completing 32 credit points in prescribed courses or their equivalent, the candidate must devote three months full time to research work in nutrition and field work in human nutrition and submit a thesis or essay. This program is designed for those desiring to work in the clinical field of nutrition in health and disease.

PROGRAM IN BIOPHYSICS AND BIOPHYSICAL CHEMISTRY

The program of study in biophysics and biophysical chemistry, which leads to the award of the degree of Doctor of Philosophy, is under the jurisdiction of the Graduate School of Arts and Sciences. Information about admission and degree requirements and courses of instruction is given in the bulletin of the Graduate School of Arts and Sciences.

The Postgraduate Program

Opportunities for medical training beyond the M.D. degree are offered at Columbia University through three major programs: (1) the training of specialists by means of hospital residencies; (2) the Doctor of Medical Science program, for physicians with particular interest and competence in research in the basic sciences; and (3) special courses in general medicine and in the specialties, for practicing physicians and physicians in training who wish to renew and continue their educational experiences in the various fields of medicine. Further information about these programs may be obtained from the Office of the Dean of the Faculty of Medicine.

TRAINING OF SPECIALISTS

The program offers training opportunities through fellowships at the College of Physicians and Surgeons and residencies at affiliated hospitals for holders of the M.D. degree who have completed hospital internships. Proper training for specialization includes three major elements: First, it provides a comprehensive clinical experience as a resident in a hospital that is equipped and staffed to provide graded responsibilities under the supervision of experts in the selected specialty. Second, it disciplines the resident in scientific attitudes toward health and disease and enriches his clinical experience through advanced training in those medical sciences that are largely concerned with his specialty. Finally, it gives the student the opportunity, either as a resident or as a fellow, to do basic or clinical research. This in turn may stimulate the type of creative productivity that may earn him a recommendation that he be admitted to a program leading to the award of the Doctor of Medical Science degree.

PROGRAM FOR THE DOCTOR OF MEDICAL SCIENCE DEGREE

The University confers the Med.Sc.D. degree upon a few physicians who have completed a research project in one of the basic science fields. Only staff members of the Columbia-Presbyterian Medical Center are eligible for this degree. A minimum of one year of full-time work in the basic science field is required. Additional requirements include completion of a significant and original research project, the passing of a comprehensive and an oral examination, and submission of a dissertation.

COURSES FOR PRACTICING PHYSICIANS AND SPECIALISTS

A variety of short courses have been organized at hospitals and clinics affiliated with the University; they are available at the Columbia-Presbyterian Medical Center, St. Luke's Hospital, and Harlem Hospital. No University credit or certificates are granted for these courses.

Courses for the general practitioner furnish opportunities for him to keep abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention; and to learn the indications, limitations, and value of those technical procedures which require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, demonstrations, and discussion.

For those already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is limited to those who have the preparation necessary to enable them to benefit by the advanced instruction.

Departments of Instruction

ANATOMY

PROFESSORS

Edward W. Dempsey, *chairman*. *B.A., Marietta, 1932; Sc.M., Brown, 1934; Ph.D., 1937. M.A., Harvard, 1946; Sc.D., Marietta, 1954*

Malcolm B. Carpenter. *B.A., Columbia, 1943; M.D., Long Island, 1947*

Frederick A. Mettler (Neurology). *B.A., Clark, 1929; M.A., Cornell, 1931; Ph.D., 1933; M.D., Georgia, 1937; D.Sc., Clark, 1951*

Melvin L. Moss (Dean, Faculty of Dental and Oral Surgery) *B.A., New York University, 1942; D.D.S., Columbia, 1946; Ph.D., 1954*

Charles R. Noback. *B.S., Cornell, 1936; M.S., New York University, 1938; Ph.D., Minnesota, 1942*

MALCOLM P. ALDRICH PROFESSOR

George K. Smelser (Ophthalmology). *B.A., Earlham, 1929; Ph.D., Chicago, 1932*

ASSOCIATE PROFESSORS

Frederic J. Agate. *B.A., Columbia, 1932; Ph.D., 1949*

J. Michael Bedford (International Institute for Study of Human Reproduction). *B.A., Cambridge, 1958; M.A., Vet.M.B., M.R.C.V.S., 1958; Ph.D., London, 1965*

Philip W. Brandt. *B.A., Swarthmore, 1952; M.S., Pennsylvania, 1957; Ph.D., Columbia, 1960*

Charles A. Ely. *B.A., Washington and Jefferson, 1936; Ph.D., Wisconsin, 1949*

ASSISTANT PROFESSORS

Ernest W. April. *B.S., Tufts, 1961; Ph.D., Columbia, 1969*

George W. Cooper, Jr. *B.A., Brown, 1958; Ph.D., Stanford, 1964*

William G. Dilley. *B.A., California (Berkeley), 1965; M.A., 1967; Ph.D., 1970*

Marie D. Felix. *B.S., American, 1956; M.S., Cornell, 1961; Ph.D., 1962*

Ray C. Henrikson. *B.Sc., Massachusetts, 1959; M.Sc., Brown, 1961; Ph.D., Boston, 1966*

W. Patrick Luckett. *B.A., Missouri, 1961; M.A., 1963; Ph.D., Wisconsin, 1967*

Mary S. Parshley (Obstetrics and Gynecology). *B.A., Smith, 1933; M.A., Pennsylvania, 1935; Ph.D., 1938*

Gerard P. Pereira. *B.Sc., Columbia, 1961; M.Sc., McGill, 1965; Ph.D., 1968*

Robert W. Rice (Orthopedic Surgery). *B.A., Cornell, 1965; M.S., New York Medical College, 1967; Ph.D., 1969*

Letty Moss Salentijn. *D.D.S., State University of Utrecht, 1967*

Alfonso Solimene. *B.A., Brooklyn, 1954; M.A., Columbia, 1959; Ph.D., 1970*

Cecilia J. Wood (Nursing). *B.Ed., Mary Rogers, 1965; M.S., St. Louis, 1966; Ph.D., 1968*

Shih-Chang Shen. *B.S., Yenching, 1933; Ph.D., Cambridge, 1939*

RESEARCH ASSOCIATES

Bei-Loo Chen
Robert J. Demarest
Joseph Reibeisen

INSTRUCTOR

Robert M. Hunt, Jr.

SPECIAL LECTURER

Edmund Applebaum

ANESTHESIOLOGY

PROFESSORS

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Andrew Patterson. *B.A., North Carolina, 1954; M.D., Columbia, 1958*
Cedric J. Priebe, Jr. *B.S., Fordham, 1951; M.D., Cornell, 1955*
James H. Terry, Jr. *B.S., Arizona, 1949; M.D., Columbia, 1953*
T. Scudder Winslow. *B.A., Princeton, 1938; M.D., Cornell, 1942*
Chin Bor Yeoh. *B.A., Yale, 1953; M.D., Harvard, 1957*

INSTRUCTORS

H. Clay Alexander
Thomas H. Dailey
Clarence A. Dunn, Jr.

INSTRUCTORS (*continued*)

William G. Hamilton
Ervin E. Hanson

INSTRUCTORS (*continued*)

William V. Healey, Jr.
James C. Parkes III

► AT ST. LUKE'S HOSPITAL

PROFESSOR

Hugh F. Fitzpatrick. *B.S., Creighton, 1942; M.D., 1943*

CLINICAL PROFESSOR

John P. West. *B.S., Alabama Polytechnic, 1927; M.D., Cornell, 1932*

ASSOCIATE CLINICAL PROFESSORS

W. Graham Knox. *B.A., Columbia, 1939; M.D., 1942*
Colin W. McCord. *B.A., Williams, 1949; M.D., Columbia, 1953*
Richard B. Stark. *B.A., Stanford, 1936; M.D., Cornell, 1941*

ASSISTANT CLINICAL PROFESSORS

Robert T. Edmunds. *B.A., Harvard, 1946; M.D., Columbia, 1951*
Robert F. Fraser. *B.A., Dartmouth, 1931; M.D., Columbia, 1934*
Robert McCabe. *B.A., Williams, 1948; M.D., Cornell, 1953*
Carl S. Oakman. *B.A., Harvard, 1933; M.D., Tufts, 1943*
Robert W. Schick. *B.A., Columbia, 1948; M.D., New York Medical College, 1952*
Edward G. Stanley-Brown. *M.D., Pennsylvania, 1948*

INSTRUCTORS

Charles R. Blair
Peter A. Bossart
Clayton R. De Haan
Conrad Lattes

INSTRUCTORS (*continued*)

Robert E. Miller
Alfred Moscarella
Howard Nay
John J. White

ASSISTANTS

Leif O. Holgersen
Lawrence F. Simon

UROLOGY

PROFESSOR

John K. Lattimer, *chairman.* *B.A., Columbia, 1935; M.D., 1938; Med.Sc.D., 1943*

PROFESSOR OF CLINICAL UROLOGY

Ralph J. Veenema. *B.A., Calvin, 1942; M.D., Jefferson, 1945*

ASSOCIATE PROFESSOR OF PATHOLOGY

Myron Tannenbaum. *B.S., New York University, 1952; M.S., 1955; Ph.D., 1957; M.D., Chicago, 1961*

ASSOCIATE PROFESSOR OF CLINICAL UROLOGY

Hans H. Zinsser. *B.S., Harvard, 1938; M.D., Columbia, 1942*

ASSOCIATE CLINICAL PROFESSORS

Stanley B. Braham. *B.A., Columbia, 1944; M.D., 1947*
Myron S. Roberts. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1954*

ASSISTANT PROFESSOR

Harry Seneca. *M.D., American University of Beirut, 1933; M.S., Tulane, 1943*

ASSISTANT PROFESSOR OF PATHOLOGY

Phillip Tomashefsky. *Ph.D., New York University, 1969*

ASSISTANT PROFESSOR OF PHYSIOLOGY

Richard C. Mason. *Ph.D., Indiana, 1952*

ASSISTANT PROFESSORS OF CLINICAL UROLOGY

Peter J. Puchner. *B.A., Carleton, 1958; M.D., Columbia, 1962*
Nicholas A. Romas. *B.A., Colgate, 1958; M.D., Columbia, 1962*
Aurelio Uson. *M.D., Barcelona (Spain), 1950*

ASSISTANT CLINICAL PROFESSORS

J. Timothy Donovan. *M.D., New York Medical College, 1948*
Louis J. Dougherty. *B.A., Yale, 1950; M.D., Cornell, 1954*

Michael W. Justice. *B.A., Kansas, 1950; M.D., 1954*
Frank W. Longo. *B.S., Maryland, 1951; M.D., 1955*
Perrin B. Snyder. *B.S., New York University, 1929; M.D., 1933*
Sandor H. Wax. *B.S., Boston, 1949; M.S., Union, 1950; M.D., Tufts, 1954*

ASSOCIATES

Peter N. DeSanctis
Charles E. Umhey, Jr.
Ralph C. Yeaw

RESEARCH ASSOCIATES

Stanford Pulrang
Jean Todd

INSTRUCTORS

Clement A. Furey, Jr.
Robert Granato
John P. Grant, Jr.
Paul Tucci
Robert R. White
Arthur T. Willetts

ASSISTANTS

Stanley Bloom
Richard Fadil
Stanley J. Landau

SPECIAL LECTURERS

Bruno Fingerhut
Meyer M. Melicow

► AT MARY IMOGENE BASSETT HOSPITAL

ASSOCIATE CLINICAL PROFESSOR OF SURGERY

Rodman D. Carter. *B.A., Harvard, 1950; M.D., Columbia, 1954*

► AT HARLEM HOSPITAL

ASSISTANT CLINICAL PROFESSOR

Harold A. Garnes. *B.S., College of the City of New York, 1944; M.D., Howard, 1951*

INSTRUCTORS

Urbano K. Guarin
Joseph D. Putignano

Internship Placement: Class of 1971

Ames, Elizabeth D. *St. Vincent's Hospital, New York, N.Y.*

Apfel, Franklin J. *Lincoln Hospital, New York, N.Y.*

Avery, G. J., II *Roosevelt Hospital, New York, N.Y.*

Baker, John D. *Presbyterian Hospital, New York, N.Y.*

Barnett, Jeffrey D. *Jewish Hospital of St. Louis, St. Louis, Mo.*

Barrett, David H. *University of Washington Affiliated Hospitals, Seattle, Wash.*

Bedwinek, John M. *Mary Hitchcock Memorial Hospital, Hanover, N.H.*

Belgraier, Arnold. H. *Presbyterian Hospital, New York, N.Y.*

Berenberg, R. A. *Harlem Hospital, New York, N.Y.*

Berkman, Alan *Presbyterian Hospital, New York, N.Y.*

Berkowitz, Fred *Presbyterian University Hospital, Pittsburgh, Pa.*

Braun, Jory L. *San Francisco General Hospital, San Francisco, Calif.*

Brensilver, J. M. *Bellevue Hospital Center, New York, N.Y.*

Brown, Frederick G. *Parkland Memorial Hospital, Dallas, Tex.*

Bruno, Leonard A. *Presbyterian Hospital, New York, N.Y.*

Buhl, Walter R. *Virginia Mason Hospital, Seattle, Wash.*

Chambers, Richard B. *Harlem Hospital, New York, N.Y.*

Chodoff, Mark E. *Presbyterian Hospital, New York, N.Y.*

Clyman, Ronald I. *University of California Program, San Francisco, Calif.*

Coe, Eric H. *Montefiore Hospital, Pittsburgh, Pa.*

Cohen, Daniel *Harlem Hospital, New York, N.Y.*

Conard, F. U., III *Hartford Hospital, Hartford, Conn.*

David, Sami S. *Memorial Hospital of New York City, New York, N.Y.*

De Ciutis, A. C. *Memorial Hospital of New York City, New York, N.Y.*

DeJong, R. N., Jr. *Los Angeles County USC Medical Center, Los Angeles, Calif.*

Deitzgen, Walter A. *Harlem Hospital, New York, N.Y.*

Drew, Thomas M. *Beth Israel Hospital, Boston, Mass.*

Edoga, John K. *Harlem Hospital, New York, N.Y.*

Eggers, Arnold E. *Memorial Hospital of New York City, New York, N.Y.*

Eggers, Howard M. *St. Luke's Hospital, New York, N.Y.*

Engleman, Edgar G. *University of California Program, San Francisco, Calif.*

Evans, James F. *Mary Hitchcock Memorial Hospital, Hanover, N.H.*

Fass, Steven J. *Roosevelt Hospital, New York, N.Y.*

Fischer, W. J., III *Roosevelt Hospital, New York, N.Y.*

Freese, Kenneth J. *Roosevelt Hospital, New York, N.Y.*

Gann, Erik *French Hospital, San Francisco, Calif.*

Gluckman, Stephen J. *University of Pennsylvania Hospital, Philadelphia, Pa.*

Gold, Jonathan W. *New York-Memorial Hospital, New York, N.Y.*

Goozner, Barry E. *Jewish Hospital of St. Louis, St. Louis, Mo.*

Greene, J. I. *Bronx Municipal Hospital Center, New York, N.Y.*

Gunther, Stephen J. *Presbyterian Hospital, New York, N.Y.*

Gustafson, Dennis H. *San Francisco General Hospital, San Francisco, Calif.*

Halper, James P. *Presbyterian Hospital, New York, N.Y.*

Hammer, Mark E. *Harlem Hospital, New York, N.Y.*

Harbison, William S. *St. Luke's Hospital, New York, N.Y.*

Hartwell, P. W. *St. Luke's Hospital, New York, N.Y.*

Hickes, Robert G. *Roosevelt Hospital, New York, N.Y.*

Hill, George S., Jr. *Los Angeles County Harbor General, Torrance, Calif.*

Hinrichs, William *San Diego County University Hospital, San Diego, Calif.*

Holt, J. W., III *North Carolina Memorial Hospital, Chapel Hill, N.C.*

Iacobellis, Frank W. *St. Luke's Hospital, New York, N.Y.*

Icenhower, W. B. *Mercy Hospital, San Diego, Calif.*

Janowitz, K. G. *St. Luke's Hospital, New York, N.Y.*

Johnson, Martin *Presbyterian-Pacific Medical Center, San Francisco, Calif.*

Jones, Charles M. *Grady Memorial-Emory University Hospital, Atlanta, Ga.*
Kachel, Richard G. *Presbyterian University Hospital, Pittsburgh, Pa.*
Kaufman, E. M. *University of New Mexico Affiliated Hospitals, Albuquerque, N.M.*
Kelly, Edward A. *Lincoln Hospital, New York, N.Y.*
Kennedy, Timothy C. *Presbyterian Hospital, Denver, Colo.*
Koliner, Charles M. *Harlem Hospital, New York, N.Y.*
Lanning, Richard C. *St. Vincent's Hospital, New York, N.Y.*
Larsen, Gary L. *Colorado Medical Center, Denver, Colo.*
Lazarus, George M. *Presbyterian Hospital, New York, N.Y.*
Leavitt, Ronald J. *Los Angeles County USC Medical Center, Los Angeles, Calif.*
Lenke, Roger R. *Roosevelt Hospital, New York, N.Y.*
Lessey, Robert A. *University of Maryland Hospital, Baltimore, Md.*
Levy, Mark I. *Mount Zion Hospital, San Francisco, Calif.*
Lynch, Thomas J. *Lincoln Hospital, New York, N.Y.*
Marshall, Robert A. *Lincoln Hospital, New York, N.Y.*
Mayer, James W. *University of Chicago Hospitals & Clinics, Chicago, Ill.*
McCarthy, David M. *University of Chicago Hospitals & Clinics, Chicago, Ill.*
McDougal, John S. *Presbyterian Hospital, New York, N.Y.*
McNeil, G. N., Jr. *Presbyterian Hospital, New York, N.Y.*
Meny, Robert G. *Memorial Hospital of New York City, New York, N.Y.*
Migel, Peter F. *Presbyterian Hospital, New York, N.Y.*
Miller, Zachary I. *Stanford University, Stanford, Calif.*
Mithen, Francis A. *Presbyterian Hospital, New York, N.Y.*
Moskowitz, R. C. D. *Beth Israel Hospital, New York, N.Y.*
Moulton, Anthony L. *Presbyterian Hospital, New York, N.Y.*
Mouradian, W. H. *Roosevelt Hospital, New York, N.Y.*
Neill, M. H., Jr. *University of Washington Affiliated Hospitals, Seattle, Wash.*
Newman, John H. *Presbyterian Hospital, New York, N.Y.*
Obedzinski, J. E. *Mount Zion Hospital, San Francisco, Calif.*
Oster, Martin W. *Massachusetts General Hospital, Boston, Mass.*
Owens, Henry H. *Roosevelt Hospital, New York, N.Y.*
Padula, Joseph P. *Memorial Hospital of Long Beach, Long Beach, Calif.*
Palfrey, Judith S. *Bronx Municipal Hospital Center, New York, N.Y.*
Palmer, Henry R. *Harlem Hospital, New York, N.Y.*
Parkins, George K. *Presbyterian Hospital, New York, N.Y.*
Pendleton, Eugene B. *Queens Hospital, Honolulu, Hawaii*
Pickering, R. S. *University of Alabama Medical Center, Birmingham, Ala.*
Pierce, Donald A. *St. Luke's Hospital, New York, N.Y.*
Popik, William C. *Harlem Hospital, New York, N.Y.*
Prendergast, J., Jr. *Harlem Hospital, New York, N.Y.*
Rand, Lawrence I. *University of Miami Affiliated Hospitals, Miami, Fla.*
Randall, Derek G. *Harlem Hospital, New York, N.Y.*
Ratzan, Richard M. *Jewish Hospital of St. Louis, St. Louis, Mo.*
Ratzan, Susan K. *St. Louis Children's Hospital, St. Louis, Mo.*
Redmond, Geoffrey P. *Presbyterian Hospital, New York, N.Y.*
Richman, Steven D. *The New York Hospital, New York, N.Y.*
Roberts, T. L., III *University of Virginia, Charlottesville, Va.*
Ruckert, G., IV *Mary Imogene Bassett Hospital, Cooperstown, N.Y.*
Savidge, George P. *Maine Medical Center, Portland, Me.*
Schaffner, Donald P. *Strong Memorial Hospital, Rochester, N.Y.*
Scheinman, R. P. *Presbyterian-Pacific Medical Center, San Francisco, Calif.*
Schermerhorn, J. J. *Syracuse Medical Center, Syracuse, N.Y.*
Schoenfeldt, R. S. *Santa Barbara Cottage Hospital, Santa Barbara, Calif.*
Schulze, R. A., Jr. *Presbyterian Hospital, New York, N.Y.*
Silverman, Ethel M. *Presbyterian Hospital, New York, N.Y.*
Slater, Eve E. *Massachusetts General Hospital, Boston, Mass.*
Smith, William M. *Highland General Hospital, Oakland, Calif.*
Soong, J. L., Jr. *Los Angeles County Harbor General Hospital, Torrance, Calif.*

Southern, Darrell, L. *Presbyterian Hospital, New York, N.Y.*
Spellman, G. G., Jr. *University of Michigan Affiliated Hospitals, Ann Arbor, Mich.*
Sprenkle, Arthur C. *Boston City Hospital, Boston, Mass.*
Stark, Raymond I. *Presbyterian Hospital, New York, N.Y.*
Stone, C. L., Jr. *Montefiore Hospital, New York, N.Y.*
Sturges, Stephen P. *French Hospital, San Francisco, Calif.*
Tubridy, Frank J. *Harlem Hospital, New York, N.Y.*
Vaughan, James E. *St. Luke's Hospital, New York, N.Y.*
Wall, A. J., III *Mary Imogene Bassett Hospital, Cooperstown, N.Y.*
Weber, Collin J. *Presbyterian Hospital, New York, N.Y.*
Welch, Martha G. *Greenwich Hospital, Greenwich, Conn.*
White, Benjamin W. *Roosevelt Hospital, New York, N.Y.*
Wood, Daniel H. *Roosevelt Hospital, New York, N.Y.*
Zeller, Barbara C. *Roosevelt Hospital, New York, N.Y.*

Class of 1972

Barkin, Neil Jay — Great Neck, N.Y.
B.S., Union, 1968
Bell, Christopher Pember — White Plains, N.Y.
B.A., Brown, 1967
Bent, George — Independence, Ohio
B.A., Trinity, 1966
Bessman, Joel D. — Baltimore, Md.
B.A., Columbia, 1967
Black, Thomas Jeffrey — Kenton, Ohio
B.S., Michigan, 1968
Bogdasarian, Michael Alan — Binghamton, N.Y.
B.A., Michigan, 1968
Boucher, Charles Allen — Flushing, N.Y.
B.A., Cornell, 1968
Bower, James Stephen — Madison, Wisc.
B.S., Harvard, 1968
Boxer, Robert Alan — Metuchen, N.J.
B.A., Rutgers, 1968
Cabot, Anthony — Pelham Manor, N.Y.
B.A., Hobart, 1968
Carlson, Robert Howard — Montclair, N.J
B.A., Columbia, 1968
Carlson, Susan Spevack — New Rochelle, N.Y.
B.A., Skidmore, 1967
Chan, Philip — Oceanside, N.Y.
B.A., Harvard, 1968
Ciafone, Russell Anthony — Huntington, N.Y.
B.A., Princeton, 1968
Collins, Lucy Emerson — Cambridge, Mass.
B.A., Radcliffe, 1964
Curtis, David Lambert — Salt Lake City, Utah
B.A., Colgate, 1968
Curtis, John Ashton — Haverford, Pa.
B.A., Hamilton, 1968
Daines, Joseph Gordon, Jr. — Boise, Idaho
B.S., Utah, 1968
Dann, Francis Joseph — New York, N.Y.
B.A., Columbia, 1968
Davis, George Fabyan — New York, N.Y.
B.A., Harvard, 1968
Dickens, Michael Douglas — Atlanta, Ga.
B.A., Princeton, 1968
Dienstag, Jules Leonard — Forest Hills, N.Y.
B.A., Columbia, 1968
Dresdale, Robert Jay — Brooklyn, N.Y.
B.A., Brown, 1968
Dresdale, Susan Spear — Manhasset, N.Y.
B.A., Wellesley, 1968
Durbin, William Applebee, Jr. — Wabon, Mass.
B.A., Dartmouth, 1968
Edelman, Stuart Edward — Flushing, N.Y.
B.S., Trinity, 1968
Eisenstein, Barry Ira — Woodmere, N.Y.
B.A., Kenyon, 1968
English, Woodruff Jones, II — Summit, N.J.
B.A., Princeton, 1968
Evans, Jonathan Lynn — Pittsburgh, Pa.
B.S., Grove City, 1969
Finck, Arthur Donald — Palisades, N.Y.
B.S., Lafayette, 1968
Fleming, Richard Elliot, Jr. — Chatham, N.J.
B.A., Princeton, 1968
Foster, Catherine Mary — Minneapolis, Minn.
B.A., Barnard, 1968
Foster, Craig Richard — Wilton, Conn.
B.A., Yale, 1968
Frankel, Martin Jay — Freeport, N.Y.
B.A., Columbia, 1968
Friedman, Peter Laurence — Clayton, Mo.
B.S., Oberlin, 1968
Gessinger, John Robert — Ridgewood, N.J.
B.A., Princeton, 1968
Ginsberg, Harry Michael — Quincy, Mass.
B.A., Boston, 1968
Glasier, James Crocker — Loudonville, N.Y.
B.A., Princeton, 1963

Green, Kenneth Richard Chestnut Hill, Mass.
B.A., Bowdoin, 1968
Greenberg, Robert Samuel Princeton, N.J.
B.A., Yale, 1968
Guinther, Jay Paul Cranford, N.J.
B.A., Wesleyan, 1968
Hadler, James Loggins Washington, D.C.
B.S., McGill, 1968
Hamilton, Robert Hepburn Grosse, Pointe, Mich.
B.S., Michigan, 1968
Hamilton, Ross Teen St. Albans, N.Y.
B.A., Syracuse, 1968
Hammer, Scott Mel New York, N.Y.
B.A., Columbia, 1968
Harrison, Edward Webb, Jr. Princeton, N.J.
B.A., Princeton, 1965
Hasselbacher, Peter Allendale, Camp Hill, Pa.
B.A., Wesleyan, 1968
Haupert, Garner Tripp, Jr. Medford, Ore.
B.A., Harvard, 1968
Hayward, Arthur D'Alanson Sikeston, Mo.
B.A., Yale, 1968
Hayward, Malcolm Lloyd, Jr. Rosemont, Pa.
B.A., Trinity, 1968
Henry, Douglas Charles Huntington, N.Y.
B.S., Muhlenberg, 1968
Hicks, John Trimmer Ann Arbor, Mich.
B.S., Michigan, 1968
Hillis, Leslie David Tyler, Tex.
B.A., Columbia, 1967
Horwitz, Marcus Aaron Elmira, N.Y.
B.S., Cornell, 1968
Huber, Philip Joseph, Jr. Royal Oak, Mich.
B.A., Yale, 1968
Johnson, Lawrence Bernard Camden, N.J.
B.A., Brown, 1968
Kasch, John Adkins Northbrook, Ill.
B.S., Duke, 1968
Kemeny, Mary Margaret Elizabeth, N.J.
B.A., Radcliffe, 1968
Kessler, Bruce Edward Northfield, Vt.
B.S., Tufts, 1968
Korn, Joseph Howard New York, N.Y.
B.S., City College (New York), 1968
Latting, Clifton Alonzo Chicago, Ill.
B.S., Columbia, 1968
Lau, William Kien Ki Honolulu, Hawaii
B.A., Hawaii, 1968
Leland, Anne Bronson New York, N.Y.
B.A., Radcliffe, 1968
Lincoln, Lawrence Jay Wilmington, Del.
B.S., Amherst, 1968
Link, Arthur Stanley, Jr. Princeton, N.J.
B.S., Davidson, 1968
Locke, Steven Eliot Englewood, N.J.
B.A., Cornell, 1968
Logan, Bruce David Swampscott, Mass.
B.A., Colby, 1967
Lotz, Michael Jay New York, N.Y.
B.A., Columbia, 1968
Lovell, Charles Frederick, Jr. Pilot Mountain, N.C.
B.A., Harvard, 1968
Lowy, Franklin David New York, N.Y.
B.A., Columbia, 1968
Malitz, Alan Jeffrey Scarsdale, N.Y.
B.S., Bucknell, 1968
Martindale, Peter Craig Newtown Square, Pa.
B.A., Johns Hopkins, 1968
Mathers, James Alexander Lamond, Jr. Englewood, N.J.
B.A., Bowdoin, 1967
Maulitz, Robert Marx Birmingham, Ala.
B.A., Harvard, 1968
Mayer, Thomas Roy Milwaukee, Wisc.
B.S., Wisconsin, 1968
McGreevy, Thomas Michael Vandalia, Ohio
B.S., Dayton, 1968
McGuire, Michael Francis St. Louis, Mo.
B.A., Columbia, 1968
McNeill, Douglas Hugh Briarcliff Manor, N.Y.
B.A., Hamilton, 1968
Menotti, Robert Amel Fayetteville, N.Y.
B.A., Syracuse, 1968
Mickell, John Joseph Peekskill, N.Y.
B.S., Manhattan, 1968
Miller, Wayne Alexander Homewood, Ill.
B.S., Michigan, 1968
Mintz, Jesse Michael West Hempstead, N.Y.
B.A., Rochester, 1968
Newmark, Michael Ede San Antonio, Tex.
B.A., Columbia, 1968
Newton, Leslie Stanz Wauwatosa, Wisc.
B.A., Yale, 1968
Norton, Larry Valley Stream, N.Y.
B.A., Rochester, 1968
Packard, William Michael Dansville, N.Y.
B.A., Hamilton, 1968
Pancoast, Stephen Joseph Manchester, N.H.
B.A., New Hampshire, 1968
Parmer, William Brent Great Neck, N.Y.
B.A., Columbia, 1968
Parry, Lynn Pasadena, Calif.
B.A., Vassar, 1966
Plakun, Eric Martin Laurelton, N.Y.
B.A., Hofstra, 1968
Porter, Robert Joseph, Jr. Rochester, N.Y.
B.A., Princeton, 1968
Reeves, Glen Irving Weiser, Idaho
B.A., Columbia, 1968
Reiffel, Robert Siskind Scarsdale, N.Y.
B.A., Yale, 1968

Resor, Stanley Rogers, Jr. Washington, D.C.
B.A., Yale, 1967
Robinson, Harry John, Jr. Short Hills, N.J.
B.S., Bucknell, 1968
Romney, Benjamin Mayer
Mamaroneck, N.Y.
B.A., Dartmouth, 1969
Rousell, Charles Hiebert Buhler, Kans.
B.A., Harvard, 1968
Ryder, Robert Winsor Winchester, Mass.
B.A., Middlebury, 1968
Sauvigne, Arthur E. Mineola, N.Y.
B.A., Providence, 1967
Schoene, Robert Brown Columbus, Ohio
B.A., Princeton, 1968
Scotton, Bruce Warren Urbana, Ill.
B.S., Illinois, 1968
Seale, William Boyer Port Arthur, Tex.
B.A., Colorado College, 1968
Searl, Steven S. Pittsford, N.Y.
B.A., Amherst, 1967
Sedlacek, Keith Wayne Valley Forge, Pa.
B.A., Harvard, 1966
Seplowitz, Alen Harvey Bronx, N.Y.
B.A., Columbia, 1968
Severinghaus, John Merrill Scarsdale, N.Y.
B.A., Princeton, 1968
Shaw, Peter K. Shaker Heights, Ohio
B.S., Muhlenberg, 1968
Shiftan, Thomas Andre Scarsdale, N.Y.
B.A., Virginia, 1968
Sigmond, Mark Bevers Northbrook, Ill.
B.A., Yale, 1968
Singer, Alfred Port Jervis, N.Y.
B.S., Massachusetts Institute of Technology, 1968
Slate, Jerome Lawrence Quincy, Mass.
B.A., Pennsylvania, 1968
Slutsky, Lawrence Joel Bayside, N.Y.
B.A., Trinity, 1968
Stanton, Robert Alan Great Neck, N.Y.
B.A., Williams, 1968
Stelzer, Paul Edward Elk Creek, Neb.
B.A., Abilene Christian, 1968
Stoeckle, David Bruce Darien, Conn.
B.A., Amherst, 1968
Stone, Richard Alan
Newtown Centre, Mass.
B.A., Harvard, 1968
Straus, Stephen Ezra Brooklyn, N.Y.
B.S., Massachusetts Institute of Technology, 1968
Sutphen, James Leonard Newark, Ohio
B.A., Wesleyan, 1968
Taylor, Steven James Ogden, Utah
B.A., Columbia, 1968
Tomecki, Kenneth Joseph Brooklyn, N.Y.
B.A., Columbia, 1968
Van der Ziel, Cornelia H. J.
Minneapolis, Minn
B.A., Radcliffe, 1968
Vinci, Joseph Manuel Middletown, Conn.
B.A., Wesleyan, 1968
Walls, Joan Catherine Binghamton, N.Y.
B.A., Mount Holyoke, 1967
Weininger, Richard B. Whitestone, N.Y.
B.S., City College (New York), 1966
Weis, Lawrence David Prospect, Ky.
B.A., Wesleyan, 1968
White, Phyllis Jeanne Bronxville, N.Y.
B.A., Manhattanville, 1968
Woodward, Randolph Craig Baltimore, Md.
B.A., Yale, 1967

Class of 1973

Alexander, Charles Beatty Sewickley, Pa.
B.A., Princeton, 1969
Altman, Philip New York, N.Y.
B.S.E.E., City College (New York), 1969
Armstrong, Carol L. New York, N.Y.
B.A., Bryn Mawr, 1969
Armstrong, Robert Bruce Charlotte, N.C.
B.A., Haverford, 1969
Austin, Howard Albert, III New York, N.Y.
B.A., Yale, 1969
Barnard, William Lloyd, Jr.
New York, N.Y.
B.A., Colgate, 1964
M.B.A., Rutgers, 1967
Bell, Edward Frank Washington, Pa.
B.A., Washington & Jefferson, 1969
Bellamy, Robert Edgar Sandusky, Ohio
B.S., Ohio State, 1968
Blackinton, Charles Harry Pasadena, Calif.
B.S., U.S. Naval Academy, 1961
Boyce, James Daniel Poultney, Vt.
B.A., Columbia, 1969
Brabbee, Gregory William Neenah, Wis.
B.A., Northwestern, 1969
Brown, Malcolm McDougal Lake Forest, Ill.
B.A., Yale, 1969
Bruen, Marian Anthon New York, N.Y.
B.A., Connecticut College, 1968
Calderbank, James Blake New Haven, Conn.
B.S., Yale, 1969
Carroll, David Stewart East Williston, N.Y
B.A., Colgate, 1969

Chester, Alexander Campbell East Williston, N.Y.
B.S., Georgetown, 1969
Chiu, David Tak Wai Memphis, Tenn.
B.A., Missouri, 1969
Collins, Steven James Toledo, Ohio
B.A., Kenyon, 1969
Craig, Edward Vincent New Milford, N.J.
B.A., Princeton, 1969
Creelman, Kevin Bremerton, Wash.
B.S., Washington (Seattle), 1968
Crone, Richard Allen Fort Lewis, Wash.
B.A., Washington, 1969
Davis, James Alan San Francisco, Calif.
B.A., California (Berkeley), 1969
Dean, Jurrien Hastings-on-Hudson, N.Y.
B.A., Columbia, 1969
Demarest, Gerald Birch III Westfield, N.J.
B.A., Colgate, 1969
DeNicola, Lucian Kenneth Manhasset, N.Y.
B.S., Bucknell, 1966
M.S., Bucknell, 1968
DeNisco, Anthony John New York, N.Y.
B.A., Columbia, 1969
DePasquale, Eugene Edward Southampton, N.Y.
B.A., Kenyon, 1969
Dericks, Gerald Henry, Jr. Tulsa, Okla.
B.A., Dartmouth, 1965
Dransfield, Douglas Alan Huntington, N.Y.
B.A., College of Wooster, 1969
Feinfeld, Linda Ellen Rye, N.Y.
B.A., Wisconsin, 1969
Finley, David H. Scarsdale, N.Y.
B.A., Johns Hopkins, 1969
Fraser, Patricia Ann New York, N.Y.
B.A., Manhattanville, 1969
Friedlander, Richard Paul Baltimore, Md.
B.A., Case Western Reserve, 1969
Gliklich, Jerry I. New York, N.Y.
B.A., Columbia, 1969
Goldberger, Mark Jay Perth Amboy, N.J.
B.A., Johns Hopkins, 1969
Greenberg, Roger Lee Denver, Colo.
B.A., Trinity, 1969
Grossbard, Elliott New York, N.Y.
B.A., Columbia, 1969
Grundfest, Sharon Frieda Belleville, N.J.
S.B.E.E., Massachusetts Institute of Technology, 1969
Hacken, Joan Beck Dobbs Ferry, N.Y.
B.A., Barnard, 1964
Hacker, Peter Sam New Hyde Park, N.Y.
B.S., Tufts, 1969
Hakes, Thomas Brion Indianapolis, Ind.
B.S., Rose Polytechnic Institute, 1967
Halsted, Douglas Oliver Cresskill, N.J.
B.A., Dartmouth, 1969
Handwerger, Richard Michael New York, N.Y.
B.A., Hunter, 1968
Hawkins, Katherine Ann Greenwich, Conn.
B.A., Manhattanville, 1969
Herbert, John Thomas Williamson, N.Y.
B.A., Columbia, 1969
Heyman, Richard Benjamin North Plainfield, N.J.
B.A., Columbia, 1969
Hoffmann, Peter Robert Teaneck, N.J.
B.A., Columbia, 1969
Huskins, Dennis George Hempstead, N.Y.
B.A., Wesleyan, 1968
Hutcheon, David Forbes Livingston, N.J.
B.A., Yale, 1969
Johnson, Sara Jane Southampton, N.Y.
B.A., Smith, 1968
Kalter, Joshua Orlinoff Holyoke, Mass.
B.A., Yale, 1969
Kaye, Jefferson James Coral Gables, Fla.
B.A., Duke, 1969
Keddington, Robert Samuel Salt Lake City, Utah
B.S., Utah, 1969
Kouzmanoff, Alan Port Chester, N.Y.
B.A., Columbia, 1969
Kvam, David Adolph Litchfield, Minn.
B.S., St. Olaf, 1969
Lake, Alan Shanley Blackfoot, Idaho
B.A., Columbia, 1967
Leahey, Edward Berry, Jr. South Nyack, N.Y.
B.A., Fordham, 1969
Leahy, Dennis Robert Wilmette, Ill.
B.A., Princeton, 1969
Leimert, Joseph Thompson Hohokus, N.J.
B.A., McGill, 1969
Lipton, Mitchel Alfred West Orange, N.J.
B.A., Rutgers, 1969
Lombardo, John Wynne New York, N.Y.
B.A., Columbia, 1969
Luken, Martin Gerard, III Chicago, Ill.
B.S., Georgetown, 1969
Lupovici, Mihai Z. New York, N.Y.
B.A., New York University, 1969
Lynn, Stephan Gordon Hammond, Ind.
B.A., Swarthmore, 1969
Lyons, David Chandler Kenilworth, Ill.
B.A., Yale, 1965
M.B.A., Harvard, 1967
McAuliffe, Vincent Joseph Teaneck, N.J.
B.S., Boston College, 1969
McConnell, Robert John Whitesboro, N.Y.
B.A., Hamilton, 1969
McCuen, Brooks Walton DeWitt, N.Y.
B.A., Hamilton, 1969

McKay, Lauchlan Newton Center, Mass.
B.M.E., Union, 1966
M.S., Polytechnic Brooklyn, 1969
McLanahan, Charles Scott Farmington, Mich.
B.A., Yale, 1969
McLean, Edward Righter, Jr. Greenville, Del.
B.A., Princeton, 1969
Makrauer, Frederick Lang Boston, Mass.
B.A., Princeton, 1969
Mascitelli, Robert Joseph New York, N.Y.
B.A., Holy Cross, 1970
Mattison, Donald Roger Minneapolis, Minn.
B.A., Augsberg, 1966
Mears, John Gregory Buffalo, N.Y.
B.S., Trinity, 1969
Meehan, Thomas Charles Bergenfield, N.J.
B.S., Fairfield, 1969
Mezaraups, Gunar Gundis Cincinnati, Ohio
B.A., Columbia, 1969
Michelson, Eric Lee Philadelphia, Pa.
B.A. and M.S., Pennsylvania, 1969
Mook, Carolyn Ives Cooperstown, N.Y.
B.A., Smith, 1969
Myerberg, David Zell Baltimore, Md.
B.A., Princeton, 1969
Myers, Alexander Gordon Needham, Mass.
B.A., Harvard, 1965
Nissenblatt, Michael Jeffrey Peekskill, N.Y.
B.A., Washington & Jefferson, 1970
Okamoto, Emi New York, N.Y.
B.A., Mount Holyoke, 1969
O'Neill, Donald Andrew Shelter Island, N.Y.
B.A., Columbia, 1969
Pepkowitz, Samuel Herschel Lewiston, N.Y.
B.A., Johns Hopkins, 1969
Peteet, John Raymond Atlanta, Ga.
B.S., Wheaton, 1969
Pierson, Eric William Neligh, Nebr.
Pines, Jeffrey Martin Tenafly, N.J.
B.A., Columbia, 1969
Platt, Tan Jackson Easton, Md.
B.S., Trinity, 1969
Powlis, William Davenport New York, N.Y.
B.S., City College (New York), 1969
Pynoos, Robert S. Los Angeles, Calif.
B.A., Harvard, 1965
Rapisardi, Nancy Jeanne Colorado Springs, Colo.
B.A., Radcliffe, 1969
Rau, Dean William Willmar, Minn.
B.A., Harvard, 1968
Ress, Richard R. Teaneck, N.J.
B.A., Princeton, 1969
Riehle, Robert Arthur, Jr. Cincinnati, Ohio
B.A., Yale, 1969
Rosenfeld, Jonathan Eliot New York, N.Y.
B.A., Columbia, 1969
Rubin, George Henry New York, N.Y.
B.A., New York University, 1969
Ruskin, Frederic Leonard Scottsdale, Ariz.
B.A., Stanford, 1967
Sacks, Linda M. Philadelphia, Pa.
B.A., Pennsylvania, 1968
Santamaria, Jaime New York, N.Y.
B.S., Cooper Union, 1969
Santulli, Robert B. New York, N.Y.
B.A., Yale, 1969
Saunders, Richard Ames New York, N.Y.
B.A., Dartmouth, 1969
Schultz, Neal Bruce Briarwood, N.Y.
B.A., Pennsylvania, 1969
Schwartz, Richard Lawrence Plainview, N.Y.
B.A., Pennsylvania, 1969
Sherman, William Merritt Ogdensburg, N.Y.
B.S., Hamilton, 1969
Sherrid, Mark Victor New York, N.Y.
B.A., Cornell, 1969
Southwick, Frederick S. New Haven, Conn.
B.A., Yale, 1968
Speert, David Paul Scarsdale, N.Y.
B.A., Middlebury, 1969
Spielman, Scott Ronald New York, N.Y.
B.A., Columbia, 1969
Stewart, James Richard McMurray, Pa.
B.A., Brown, 1969
Stockman, Mark Brian Marblehead, Mass.
B.A., Harvard, 1969
Straus, John Herbert New York, N.Y.
B.A., Harvard, 1968
Syracuse, Donald Charles Centerport, N.Y.
B.A., Dartmouth, 1969
Tabor, Edward Bethesda, Md.
B.A., Harvard, 1969
Taub, David Joel Plainfield, N.J.
B.A., Harvard, 1969
Thornton, Yvonne Shirley Long Branch, N.J.
B.S., Monmouth, 1969
Tornberg, David Norman Gales Ferry, Conn.
B.S., U.S. Naval Academy, 1964
Trelstad, Donald Axton Salem, Ore.
B.A., Columbia, 1969
Untereker, William Joseph Tenafly, N.J.
B.A., Williams, 1968
Vander Veer, Peter J. Poughkeepsie, N.Y.
B.A., Pomona, 1969
Verrilli, John Loftus White Plains, N.Y.
B.A., Pennsylvania, 1969
Von Hoff, Daniel Douglas DePere, Wis.
B.S., Carroll (Wisconsin), 1969
Webb, Michael Terry Pittsburgh, Pa.
B.A., Bowdoin, 1969
Weeks, Lionel E. III Rockville Centre, N.Y.
B.A., Williams, 1968

Weiss, Allen Stanley Philadelphia, Pa.
B.A., La Salle, 1969
West, Robert Bernard Chappaqua, N.Y.
B.A., Princeton, 1968
Whitsett, Jeffrey Allen Chesterland, Ohio
B.A., Colgate, 1969
Wild, Wayne Simeon New York, N.Y.
B.A., Columbia, 1968
Williams, Philip Copelain, Jr. Chicago, Ill.
B.S., Yale, 1969
Winther, Lynn C. Upper Saddle River, N.J.
B.A., Mount Holyoke, 1969
Wrobleski, Daniel Edward Holyoke, Mass.
B.S., Trinity, 1969
Yackulic, Charles Fred Bellevue, Wash.
B.A., Columbia, 1969

Class of 1974

Allyn, Thomas Richard Springfield, Ill.
B.A., Northwestern, 1968
Antman, Elliott Marshall Flushing, N.Y.
B.A., Columbia, 1971
Arlinghaus, Frank Henry, Jr. Rumson, N.J.
B.A., Columbia, 1970
Bateman, Jane Bronwyn Long Beach, Calif.
B.A., California, 1970
Beaumont, Charles Barry Lakeville, Conn.
B.A., Yale, 1965
M.S.F.S., Georgetown, 1967
Benton. Edward Wayne Columbus, Ga.
B.S., Georgia Southwestern, 1970
Biertuempeel, Hugh C., III Summit, N.J.
B.A., Princeton, 1970
Blair, Lester Winston Bronx, N.Y.
B.A., Columbia, 1970
Blake, Jeffrey Wayne Cleveland, Ohio
B.A., Columbia, 1970
Blomstedt, Jeffrey William Wilmington, Del.
B.A., Dartmouth, 1970
Bodnar, Andrew Gabriel Bronx, N.Y.
B.A., Harvard, 1970
Boyle, James Joseph Hicksville, N.Y.
B.A., Yale, 1970
Burris, James Frederick Silver Spring, Md.
B.A., B.S., Brown, 1970
Burrows, Warren Booth Brookline, Mass.
B.A., Yale, 1967
Bush, Clinton Gilman, III Oyster Bay, N.Y.
B.A., Princeton, 1970
Bysshe, Stanley Mercer, Jr. New York, N.Y.
B.A., Virginia, 1970
Call, William Herbert South Burlington, Vt.
B.A., Yale, 1969
Chang, Stanley Bronx, N.Y.
B.S.E.E., Massachusetts Institute of Technology, 1968
M.S., Pennsylvania, 1970
Ching, Gerald Dock Sung Aiea, Hawaii
B.A., Hamilton, 1970
Christensen, Robert Dennis Layton, Utah
B.S., Utah, 1970
Clark, Shana Sinaid Winter Park, Fla.
B.A., Rollins, 1971
Clark, Tedana Wibberley Winter Park, Fla.
B.A., Rollins, 1971
Cody, Hiram Sedgwick, III Mountain Lakes, N.J.
B.A., Dartmouth, 1970
Collins, Anne Flagler Dutchess County, N.Y.
B.A., Mills, 1961
Cornwall, John Wallace Short Hills, N.J.
B.A., Williams, 1970
Crandall, Marilyn Elizabeth Maplewood, N.J.
B.A., Wellesley, 1970
Daniels, Charles W. New York, N.Y.
B.A., Yale, 1967
Davis, Richard Clifton, Jr. San Angelo, Texas
B.A., Texas A&M, 1963
Ph.D., Texas A&M, 1968
Derkac, Wayne Michael Easton, Pa.
B.A., Dartmouth, 1970
Detwiller, John Patrick Rockville Centre, N.Y.
B.A., SUNY at Plattsburgh, 1969
Diamond, Norman George Waterloo, Iowa
B.A., Columbia, 1970
Eng, John E. Suffern, N.Y.
B.A., Harvard, 1970
Evans, Lewis C., II Amityville, N.Y.
B.A., Cornell, 1963
LL.B., Cornell, 1965
Fischel, Robert Elliot Tenafly, N.J.
B.A., Brandeis, 1970
Fisher, Gregory Thomas New London, Conn.
B.A., Wesleyan, 1970
Fishman, Norman Bronx, N.Y.
B.A., Columbia, 1970
Forbes, Ronald Omega Hollis, N.Y.
B.A., Harvard, 1970
Ford, John Pegram Amherst, Mass.
B.A., Columbia, 1968

Foster, Leroy Paul, Jr. Chicago, Ill.
B.S., Loyola, 1970
Gale, Steven S. Hastings-on-Hudson, N.Y.
B.E., Vanderbilt, 1964
M.S., Columbia, 1970
Gladstone, Alan Richard Stamford, Conn.
B.S., Trinity, 1970
Goshorn, Robyn Kent Franklin, Ind.
B.A., Princeton, 1969
Grosh, William Wangerin Long Island City, N.Y.
B.A., New York University, 1970
Haagensen, Darrow E. Murrysville, Pa.
B.S., Hampden-Sydney, 1966
Ph.D., Tulane, 1971
Haberkern, Charles Martin Garden City, N.Y.
B.A., Yale, 1970
Habif, David Valentine, Jr. Plainsboro, N.J.
B.A., Princeton, 1970
Hadley, Terence James Rockville Centre, N.Y.
B.S., Fordham, 1970
Hagaman, John Frederick Wynnewood, Pa.
B.S., Trinity, 1970
Hamilton, Stuart Arnim Rockaway Park, N.Y.
B.S., Trinity, 1970
Higginbottom, Philip Arthur Easton, Md.
B.S.E., Princeton, 1969
Hirsch, Steven Robert Brooklyn, N.Y.
B.A., Yale, 1970
Hodess, Arthur Bart Bronx, N.Y.
B.A., Boston, 1970
Jeffers, Lennox John New York, N.Y.
B.S., St. John's, 1967
Johnson, Reginald Van New York, N.Y.
B.A., Windham, 1968
Johnson, Robert Carl Pelham, N.Y.
B.A., Columbia, 1965
Johnson, Roland Eric Hackensack, N.J.
B.A., Columbia, 1970
Jones, Wesley Earl Holly Springs, Miss
B.S., Tougaloo, 1970
King, William Leopold Yonkers, N.Y.
B.S., Manhattan, 1970
Krinsky, Michael Mayer New London, Conn.
B.A., Syracuse, 1970
Kuna, Samuel Thomas Westfield, N.J.
B.S., Muhlenberg, 1970
Kushner, Rederick Gary Great Neck, N.Y.
B.A., Columbia, 1970
Lane, Lewis Behr Plandome Manor, N.Y.
B.A., Columbia, 1970
Leach, James Clifton, N.J.
B.A., Rochester, 1970
Lesser, Howard Arthur, Jr. New York, N.Y.
B.A., Princeton, 1970
Letcher, Robert Lee Joliet, Ill.
B.S., William & Mary, 1970
Levine, Peter Robin Far Rockaway, N.Y.
B.A., Yale, 1970
Li, Suzanne Elmhurst, N.Y.
B.A., Oakland, 1970
Lovelace, Jesse Bernard Leechburg, Pa.
B.S., Pennsylvania State, 1970
Lowe, Edward H. New York, N.Y.
B.S., City College (New York), 1971
Lowe, Frederick William, III Manchester, Conn.
B.S., Tufts, 1970
Lunsford, Lawrence Dade Petersburg, Va.
B.A., Virginia, 1970
McClelland, Shearwood J. Gary, Ind.
B.A., Princeton, 1969
McConnell, John Claude Durham, N.H.
B.A., Wesleyan, 1968
MacDonald, Alan Bruce Manchester, Conn.
B.S., Tufts, 1970
McGrath, Patrick Joseph, Jr. West Orange, N.J.
B.S., Seton Hall, 1970
McNeil, Gloria Elaine Montreal, Canada
B.S., Howard, 1970
Marshall, Merville Cameron, Jr. Bronx, N.Y.
B.A., Columbia, 1970
Martin, Patricia Jewett New York, N.Y.
B.S., Columbia, 1969
Matkovic, Christopher S. Bronx, N.Y.
B.A., Rutgers, 1965
Ph.D., Harvard, 1970
Mattern, Richard Frank Clark, N.J.
B.A., Dartmouth, 1970
Miura, Dennis Seiji New York, N.Y.
B.S., Columbia, 1965
M.S., Columbia, 1967
Moldover, Jonathan Reuben Brooklyn, N.Y.
B.S., Trinity, 1970
Nall, James Griffin New Orleans, La.
B.A., Yale, 1970
Neuhut, Denis Scott Franklin Square, N.Y.
B.A., Columbia, 1970
Newton, Mary J. Pittsburgh, N.Y.
B.A., Stanford, 1970
Nicholson, John Mallory Wistar Moorestown, N.J.
B.S., Ohio Wesleyan, 1970
Orient, Jane Michel Tucson, Ariz.
B.A., B.S., Arizona, 1967
Overstreet, James Wilkins Savannah Beach, Ga.
B.A., University of the South, 1967
Passamonte, Paul Michael Avon, N.Y.
B.S., SUNY at Albany, 1970
Polkes, Eric William New York, N.Y.
B.A., Hobart, 1969

Pomerance, Glenn Noel Flushing, N.Y.
B.A., Bard, 1968
Prudden, Peter Allen Upper Nyack, N.Y.
B.A., Harvard, 1968
Quinn, James Andrew East Meadow, N.Y.
B.A., Hofstra, 1970
Rand, James Alan Huntington, N.Y.
B.A., Denver, 1970
Rapoport, Frederick Alan Scarsdale, N.Y.
B.A., Columbia, 1970
Rasmussen, Carl Arthur Maywood, N.J.
B.A., B.S.M.E., Lafayette, 1965
M.S., Columbia, 1970
Ray, Audell Woods Pluckemin, N.J.
B.A., Vassar, 1970
Reichelderfer, Mark Winnetka, Ill.
B.A., Amherst, 1970
Rerych, Stephen Karl New Rochelle, N.Y.
B.S., North Carolina State, 1969
Rosnick, Lyle Eugene Powhatan Point, Ohio
B.A., Columbia, 1970
Sabety, Eric Farid Montclair, N.J.
B.A., Franklin and Marshall, 1970
Savage, David Glass Chagrin Falls, Ohio
B.A., Wesleyan, 1970
Scharff, Nicholas St. Louis, Mo.
B.A., Yale, 1966
Scholes, John Vackiner Wilmington, Del.
B.S., Trinity, 1970
Schroeder, Karl John Suffern, N.Y.
B.A., Notre Dame, 1970
Schubach, William Harley Columbus, Ohio
B.A., Stanford, 1966
Schwartz, Allan Bronx, N.Y.
B.S., City College of New York, 1967
M.A., Harvard, 1968
Schwarz, Steven Michael Tuckahoe, N.Y.
B.A., Yale, 1970
Seals, Jerry Ellis Buffalo, N.Y.
B.S., SUNY at Buffalo, 1969
Seigle, Robert Lee Westfield, N.J.
B.A., Northwestern, 1970
Siegal, Michael Selig Bayside, N.Y.
B.A., Harvard, 1970
Smith, Rederick Keir San Diego, Calif.
B.A., Princeton, 1970
Solny, Meyer N. New York, N.Y.
B.A., Yeshiva, 1970
Spencer-Green, George T. Kenton, Ohio
B.A., Oberlin, 1969
Squire, Gail Wilder Brooklyn, N.Y.
B.A., Barnard, 1968
Stahl, Jeffrey Drew Maumee, Ohio
B.A., Princeton, 1970
Stearns, Gretchen New York, N.Y.
B.A., New York University, 1967
Stern, Roy Howard New York, N.Y.
B.A., Columbia, 1970
Stewart, Andrew Fyfe Bronxville, N.Y.
B.S., Trinity, 1970
Sturgis, Joan New York, N.Y.
B.A., Barnard, 1965
Tedeschi, Adele Catherine
Long Island City, N.Y.
B.A., Vassar, 1970
Terry, William Ferrell Brentwood, Tenn.
B.A., Vanderbilt, 1970
Theodore, William H. New York, N.Y.
B.A., Harvard, 1969
Thomashow, Byron Martin Brooklyn, N.Y.
B.A., Columbia, 1970
Trippel, Stephen Bowman Evanston, Ill.
B.A., Swarthmore, 1970
Turco, John Harvey Melrose, Mass.
B.A., Harvard, 1970
Turi, Zoltan Gabriel Livingston, N.J.
B.A., Harvard, 1970
Vande-Stouwe, Robert Allen
Queens Village, N.Y.
B.A., Manhattan, 1970
Van Valkenburg, Charles Mac
Princeton, N.J.
B.S., Illinois, 1970
Wagner, Charles Gilbert New Milford, N.J.
B.S., Fairleigh Dickinson, 1971
Weber, James Karl New York, N.Y.
B.A., Yale, 1970
Weingarten, Michael S. Exton, Pa.
B.A., SUNY at Binghamton, 1970
Weiss, Karen S. Hamm Greenland, Pa.
B.S., Muhlenberg, 1970
Westerfield, Samuel Zaza, III
Washington, D.C.
B.S., Howard, 1970
White, David Charles Dallas, Texas
B.A., Columbia, 1970
White, Eric Alan Casper, Wy.
B.A., Yale, 1970
Wilkins, Dennis Edward Washington, Mich.
B.S., Wayne State, 1970
Williams, Sue Brown New York, N.Y.
B.A., Grinnell, 1962
Wintch, Richard Wallace Manti, Utah
B.A., Utah, 1970
Winternitz, Charles Austin Mendham, N.J.
B.A., Johns Hopkins, 1970
Yee, Ngai Ming Honolulu, Hawaii
B.A., Northwestern, 1970

Class of 1975

Ambinder, Roy Mark New York, N.Y.
B.A., Yale, 1971
Andreson, James Lawrence Lexington, Mass.
B.A., Princeton, 1971
Antoine, Clarel Brooklyn, N.Y.
B.S., City College (New York), 1971
Aron, David Clark Bayside, N.Y.
B.A., Columbia, 1971
Bell, Kevin Edmund Hollywood, Fla.
Berger, Paul Robert Garden City, N.Y.
B.A., Duke, 1971
Berliant, Bonnie Sue New York, N.Y.
B.A., Barnard, 1968
Binkert, Barbara Lucile Yonkers, N.Y.
B.A., Ohio Wesleyan, 1963
Bodnar, Paul Zoltan Flushing, N.Y.
B.A., Johns Hopkins, 1971
Bolling, Karen Louise Bronx, N.Y.
B.S., City College (New York), 1971
Bonagura, Vincent Robert
Staten Island, N.Y.
B.A., Columbia, 1971
Burtenshaw, Bruce Francis Logan, Utah
B.A., Utah State, 1971
Bushong, Charles Robert, Jr.
Short Hills, N.J.
B.A., Princeton, 1971
Bussel, James Bruce New York, N.Y.
B.A., Yale, 1971
Carden, George Alexander, III
New York, N.Y.
B.A., Yale, 1968
Casals-Ariet, Christina Brock
New York, N.Y.
Casden, Richard Stephen Woodmere, N.Y.
B.A., Williams, 1971
Cassebaum, Mary Elizabeth Englewood, N.J.
B.A., Brown, 1970
Chang, Gloria Joan Hong Kong
B.S., McGill, 1971
Chou, James Y. Floral Park, N.Y.
B.S., Columbia, 1965
Ph.D., Washington (St. Louis), 1971
Cohen, Frances Bernard Cambridge, Mass.
B.A., Radcliffe, 1971
Cohen, Louisa Bea Laurelton, N.Y.
B.S., Queens (New York), 1971
Copeland, Brian R. Corning, N.Y.
B.A., Dartmouth, 1971
Corey, Timothy James Kenmore, N.Y.
B.S., Yale, 1971
D'Alessandro, Suzanne Shirley
So. Orange, N.J.
B.A., Mount Holyoke, 1971
De Cresce, Robert Patrick Rumson, N.J.
B.S., Boston College, 1971
DeJak, Dorothy Ann Euclid, Ohio
B.A., Case Western Reserve, 1971
De Petrillo, Michael Albert Methuen, Mass.
B.A., Dartmouth, 1971
Deringer, Paul Martin Allentown, Pa.
B.A., Columbia, 1971
Dickinson, John Carlton E. Aurora, N.Y.
B.A., Amherst, 1971
di Sant'Agnese, Paul Anthony Bethesda, Md.
B.A., Amherst, 1971
Drake, Dianne Elizabeth Lexington, Ky.
B.A., Radcliffe, 1967
Erginoz, Hasan Suha New York, N.Y.
B.S., Columbia, 1968
M.S., Columbia, 1969
Fain, Wendy Branower Providence, R.I.
B.A., Wesleyan, 1971
Feigal, David William, Jr.
Minneapolis, Minn.
B.A., Minnesota, 1971
Fein, Henry George Malverne, N.Y.
B.S., Union, 1971
Feit, Alan S. Syracuse, N.Y.
B.E., City College (New York), 1968
M.S., Syracuse, 1971
Fink, Daniel Jonathan Rockaway, N.Y.
B.S., Cornell, 1968
M.S., Massachusetts Institute of Technology, 1970
Firestone, Melvin Martin
Cleveland Heights, Ohio
B.A., Chicago, 1967
M.Ed., Temple, 1969
Fischer, Stuart James Jersey City, N.J.
B.A., Virginia, 1971
Fleischman, Jay Alan Lawrence, N.Y.
B.S., Columbia, 1971
Ford, James William Memphis, Tenn.
B.S., Tennessee State, 1971
Fox, Jerry Cullen Mt. Carmel, Ill.
B.S., Illinois, 1969
Freund, John Shelton Forest Hills, N.Y.
B.A., Columbia, 1971
Freund, Peter Ronald Amesbury, Mass.
B.A., Brown, 1971
Friedman, Bruce Alan Brooklyn, N.Y.
B.A., New York University, 1971
Gambert, Steven Ross Brooklyn, N.Y.
B.A., New York University, 1971
Gang, Eli Shimshon Brooklyn, N.Y.
B.A., Columbia, 1971
Gingrich, Susan Alice New York, N.Y.
B.A., Smith, 1968

Gordon, Gerald Schenectady, N.Y.
B.A., Rochester, 1971
Graham, Jimmy East Point, Ga.
B.A., Emory, 1971
Greenberg, Jonathan Somerset, Mass.
B.A., Columbia, 1971
Harris, Brenda Dale New York, N.Y.
B.S., City College (New York), 1971
Harris, Marcia Arlene Cambria Heights, N.Y.
B.S., Pace, 1971
Hartmann, Helen Gellhorn Dobbs Ferry, N.Y.
B.A., Minnesota, 1953
Ph.D., California (Berkeley), 1962
Hazell, Samuel Ethiel Bronx, N.Y.
B.S., City College (New York), 1971
Heisler, Kenneth Avery New York, N.Y.
B.A., Columbia, 1971
Henry, Clarence Bruce Bronx, N.Y.
B.A., City College (New York), 1971
Hines, Pamela Scott Cambria Heights, N.Y.
Hofbauer, John David Forest Hills, N.Y.
B.A., Chicago, 1971
Hopkins, B. Smith Urbana, Ill.
B.A., Williams, 1969
James, Maurice Canton, Miss.
B.S., Tougaloo, 1971
Jensen, Gary Jon Staten Island, N.Y.
B.S., Wagner, 1971
Jimenez, Luis New York, N.Y.
B.A., Columbia, 1971
Johnson, Denis Carlysle Brooklyn, N.Y.
B.S., Long Island University, 1971
Johnson, Ronald Erik New York, N.Y.
B.S., Yale, 1962
J.D., Harvard, 1965
Kahn, Max Abram Burlington, Vt.
B.A., Harvard, 1969
Kohn, Edward Ira Elmont, N.Y.
B.S., Massachusetts Institute of Technology, 1971
Konigsberg, Sheldon Miami, Fla.
B.A., Emory, 1971
Konstam, Marvin Amnon Bronx, N.Y.
B.A., Columbia, 1971
Kutscher, Harlan Austin Flushing, N.Y.
B.A., Columbia, 1971
Lenchner, Gregory Steven New York, N.Y.
B.S., City College (New York), 1971
Leung, Lit-King Hong Kong
B.S., McGill, 1971
Lin, Alec Burma
B.A., Brandeis, 1971
Linday, Linda Anne New York, N.Y.
B.A., Barnard, 1970
Macko, Michael Bendall Ardsley, N.Y.
B.A., Princeton, 1971
Manger, Jules Neville Greenwich, Conn.
B.A., Lafayette, 1971
Maroldo, Thomas Vincent Bronx, N.Y.
B.A., Columbia, 1971
Martin, Jack Lee New Hyde Park, N.Y.
B.A., Hofstra, 1971
Maxwell, James Thomas East Rochester, N.Y.
B.S., Georgetown, 1971
McNair, Alfred Earl, Jr. Collins, Miss.
B.S., Tougaloo, 1971
McNamee, Michael Joseph Danbury, Conn.
B.S., Fordham, 1971
Merriam, Arnold Edward Cambridge, Mass.
B.A., Harvard, 1971
Meyers, William Clark Andover, Mass.
B.A., Harvard, 1971
Michet, Clement John, Jr. Chicago, Ill.
B.A., Columbia, 1971
Moore, Eric Davidson Tenafly, N.J.
B.A., Harvard, 1969
Motz, Robin Owen Teaneck, N.J.
B.A., Columbia, 1959
Ph.D., Columbia, 1965
Naidorf, Kenneth Fredric Brooklyn, N.Y.
B.A., Michigan, 1971
Okonmah, Chukwudi Samuel Dayton, Ohio
B.S., Dayton, 1971
Olson, Allan David Syosset, N.Y.
B.A., Cornell, 1971
Parson, Lawrence Martin Great Neck, N.Y.
B.A., Columbia, 1971
Patashnik, Stephen Melvin Los Angeles, Calif.
B.A., California (Los Angeles), 1970
Patel, Daniel Walter Woodmere, N.Y.
B.A., Reed, 1971
Peraza, Jose Emilio Ft. Wayne, Ind.
B.A., Brown, 1971
Perez, Alicia Bronx, N.Y.
B.S., City College (New York), 1971
Perrin, Timothy James Los Angeles, Calif.
B.A., Yale, 1971
Podell, Ronald Mark Elizabeth, N.J.
B.A., Amherst, 1971
Prince, Alice Sara Westfield, N.J.
B.A., Wellesley, 1971
Quinones, Lisandro Brooklyn, N.Y.
B.S., Pratt Institute, 1971
Ramos, Nancy Bronx, N.Y.
B.S., City College (New York), 1971
Ratner, Ellise Delphin New York, N.Y.
B.A., Barnard, 1971
Richter, Alfred Jason Bronx, N.Y.
B.A., Columbia, 1971
Roberts, Stuart Lee Manhasset, N.Y.
B.A., Colgate, 1971
Robinson, Raymond Paul Short Hills, N.J.
B.A., Ripon, 1971

Rose, Eric Allen Bronx, N.Y.
B.A., Columbia, 1971
Rosenbaum, Robert Leon Brooklyn, N.Y.
B.S., Columbia, 1970
M.S., Pennsylvania, 1971
Rosenstein, Roger G. Hillsdale, N.J.
B.A., Columbia, 1971
Rossi, Gwendolyn Christiane Upper Nyack, N.Y.
B.A., Vassar, 1971
Rothendler, James Adam Scarsdale, N.Y.
B.A., Amherst, 1970
Roye, David Price Norman, Okla.
B.A., Oklahoma, 1971
Rubin, David Albert Teaneck, N.J.
B.A., Brown, 1971
Rubin, Harvey Brooklyn, N.Y.
B.S., SUNY at Stony Brook, 1969
Rusch, Valerie Williams New York, N.Y.
B.A., Vassar, 1971
Sang, Delia Nai-Yueh Jamaica, N.Y.
B.A., Radcliffe, 1971
Sarewitz, Stephen John So. Orange, N.J.
B.A., Yale, 1971
Savatsky, Gary Joel Swampscott, Mass.
B.A., Dartmouth, 1971
Schned, Alan Robert Ocean, N.J.
B.S., Yale, 1971
Schned, Eric Steven Ocean, N.J.
B.S., Yale, 1971
Sheiman, Ellen Barbara Fairfield, Conn.
B.A., Rochester, 1971
Solomon, William Barney Brooklyn, N.Y.
B.A., Pennsylvania, 1970
Spiegelman, Willard Gibbs Portola Valley, Calif.
B.S., California Institute of Technology, 1963
Ph.D., Stanford, 1970
Spivack, Carl R. New York, N.Y.
B.A., Amherst, 1971
Stadelnikas, Joseph Robert Phila., Pa.
B.S., United States Military Academy, 1970
Straube, Barry M. Mendham, N.J.
B.A., Princeton, 1971
Taylor, Stephen Craig New York, N.Y.
B.S., City College (New York), 1971
Topilow, Harvey Warren Hillside, N.J.
Tsapatsaris, Nicholas Peter Lowell, Mass.
B.A., Bowdoin, 1971
Valdes, Michael Edward Alexandria, Va.
B.A., Yale, 1971
Waldron, David Edmund W. Hempstead, N.Y.
B.S., Howard, 1971
Wasserman, Sheldon Marc Yonkers, N.Y.
B.A., Columbia, 1971
Whitehead, Bruce Alan Louisville, Ky.
B.S., Michigan, 1971
Wiesen, Mark Brooklyn, N.Y.
B.A., Yeshiva, 1971
Williams, Charles Thomas, III Roslyn, N.Y.
B.A., Hofstra, 1971
Yates, Joan Ellen Cliffwood Beach, N.J.
B.A., Jersey City State College, 1967
M.A., M.P.H., Columbia, 1970
Young, Margaret Ruth Princeton, N.J.
B.A., Wellesley, 1971
Zeitler, Kenneth Dale Malden, Mass.
B.A., Columbia, 1971

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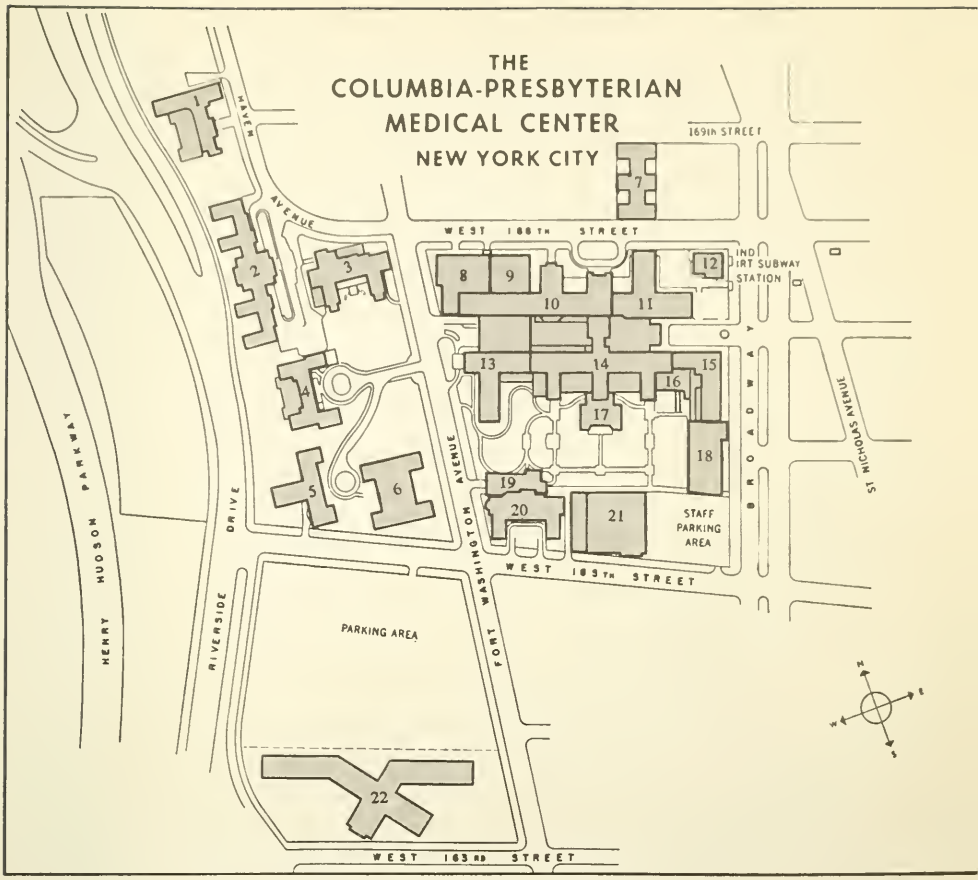

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